

Report P000320518

# Test report

Zypho SA  
Tower Plaza I, Via Eng. Edgar Cardoso 23, 5º H  
4400-676 Vila Nova de Gaia, PORTUGAL



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KIWA Nederland B.V.

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The test results in this report are exclusively related to the samples offered and tested.

Tests marked in this report with the IRN number are part of the accreditation scope (RvA L248) unless stated differently.

Measurement uncertainty of testing in the context of ISO/IEC 17025.

Test reports can, in some cases, contain besides the numeric measured values also the qualification "pass" or "fail". In this assessment, compliance with the specification limit from the applicable product standard is used. The measurement complies with the requirement if the probability of its being within the limit is at least 50%.

This does not take into account the measurement uncertainty associated with the test method.

It is explicitly stated that in the case of a "pass" or "fail", the measured result is corrected for the measurement uncertainty and/or the relevant test conditions for the measured result.

Unless otherwise noted the measurement uncertainty and conditions are as specified in the test specifications.

This report is only valid when signed by the test person and reviewer.

Conclusions for compliance with e.g. product standard requirements are not part of the lab scope (RvA L248).

In case when information is supplied by the customer it is possible that it can affect the validity of results.

In case of dispute regarding this test report please contact Kiwa Nederland B.V.

Version: 005

<b>Report number</b> .....	P000320518	
<b>Project number</b> .....	P000320518	
Date of issue .....	15-02-2024	
Total number of pages .....	7 (excluding appendices)	
<b>Testing laboratory</b> .....	KIWA Nederland B.V.	
Testing location/address .....	Wilmersdorf 50, 7327 AC Apeldoorn, The Netherlands	
Applicant's name .....	Zypho SA	
Address .....	4400-676 Vila Nova de Gaia, Portugal	
<b>Scope</b> .....	Testing of Shower Heat Recovery Units regarding the requirements as derived from the below mentioned Test specifications.	
<b>Test specifications</b>		
Standards .....	NTA8800:2023 Energy performance of buildings – Determination method	
Non-standard test method ..	N.A.	
<b>Test item description</b> .....	Shower Heat Recovery Units	
Manufacturer .....	Zypho SA	
Trade Mark .....	Zypho	
Model/Type reference .....	SLIM 50 DW, PiPe 55 DW, PiPe 60 DW (a full overview can be found in chapter 2: Description of the product)	
Test item number(s) .....	10278, 10383, 10384	
Date receipt of test item(s) ..	18-09-2023, 01-12-2023, 01-12-2023	
Date(s) of testing .....	19-09-2023, 04-12-2023 up to 06-12-2023	
<b>Remarks</b> .....	N.A.	
<b>Summary</b> .....	Complies with the requirements as far as identified in the attached test- and result sheets.	
Tested by (name + signature) .....	T. Rouweler	
Approved by (name + signature) .....	J.B. Schulte	

## 1 Summary of testing

On request of Zypho SA the items as mentioned under Test item description are tested according to the Test specifications (see page 3 of this report).

The Shower Heat Recovery Units PiPe 55 DW, PiPe 60 DW and SLIM 50 DW have been delivered by Zypho SA to Kiwa Nederland B.V.

The appliances have been installed to the test installation by Kiwa according the installation instructions. The Shower Heat Recovery Unit have been tested according to the criteria in annex U of the NTA 8800.

The DHW flow resistance over the Shower Heat Recovery Unit has been measured by fitting a pressure sensor on the tap water inlet and tap water outlet of the Shower Heat Recovery Unit. The differential pressure during tap water flow between these 2 pressure sensors is caused by flow resistance of the Shower Heat Recovery Unit.

During the project the appliance names of the models below has been changed. The temporary names have been used throughout the test results. The temporary and final type names are as follows:

Final type name:	Name (also) used in report:
SLIM 50 DW	Slim DW50
PiPe 55 DW	PiPe DW 55 and PiPe DW 50 (1,25m)
PiPe 60 DW	PiPe DW 60

The following declarations have been issued:

Declaration number:	SHRU:	Content declaration:
305181/01	SLIM 50 DW	Efficiencies 5,8 l/min, 9.2 l/min, 12.5 l/min
305182/01	PiPe 55 DW	Efficiencies 5,8 l/min, 9.2 l/min, 12.5 l/min
305183/01	PiPe 60 DW	Efficiencies 5,8 l/min, 9.2 l/min, 12.5 l/min

See appendix 1 for a summary of the detailed test results.

Appendix 2 holds photographs of the devices under test and complete test results.

Technical drawings of the tested units have been added as appendix 3.

Installation manuals of the units can be found under appendix 4.

The test results are only applicable for the samples under test and does not pass a judgment on other products supplied by the manufacturer.

Based on the product(s) information the test plan is not subject to any special interpretations or modifications.



## 2 Description of the product

<b>Name of the Supplier</b>	:	Zypho SA
<b>Trade name</b>	:	Zypho
<b>Appliance type</b>	:	Shower Heat Recovery Unit

<b>Appliance description</b>
The shower heat recovery unit is an appliance that recovers heat from the shower's waste water. The heat of the waste water is used to preheat the incoming cold water. Because of this, less energy from the heater is required.

### 3 Report history

Report number..... :	P000320518
Project number .....	P000320518
Author. .... :	Rouweth
Description..... :	Initial report

## 4 Appendices

Appendix 1.	:	Summary of test results
Appendix 2.	:	Pictures of devices under test Complete test results
Appendix 3.	:	Drawings
Appendix 4.	:	Installation manuals

End of report

## Appendix 1

### Summary of SHRU measurements

Manufacturer: Zypho  
Type: SLIM 50 DW  
Kiwa sample.nr: 10278  
serial number: pt



Measurement:	file:	flow resistance (bar):	measured efficiency (%):
5.8 l/min; 47 l, Class 2 of NTA 8800	230919C_CW21	0,20	52,5
5.8 l/min; 47 l, Class 2 of NTA 8800	230919C_CW23	0,20	52,7
5.8 l/min; 47 l, Class 2 of NTA 8800	230919C_CW24	0,20	52,7
average of 3 measurements:		<b>0,20</b>	<b>52,6</b>

Measurement:	file:	flow resistance (bar):	measured efficiency (%):
9.2 l/min; 73l, Class 3 of NTA 8800	230919B_CW32	0,47	51,1
9.2 l/min; 73l, Class 3 of NTA 8800	230919B_CW34	0,47	51,3
9.2 l/min; 73l, Class 3 of NTA 8800	230919B_CW35	0,47	51,1
average of 3 measurements:		<b>0,47</b>	<b>51,2</b>

Measurement:	file:	flow resistance (bar):	measured efficiency (%):
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	230919A_CW43	0,81	46,4
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	230919A_CW44	0,81	46,5
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	230919A_CW45	0,81	46,6
average of 3 measurements:		<b>0,81</b>	<b>46,5</b>

## Summary of SHRU measurements

Manufacturer: Zypho  
Type: PiPe 55 DW  
Kiwa sample.nr: 10383  
serial number: 5843AA23



Measurement:	file:	flow resistance (bar):	measured efficiency (%):
5.8 l/min; 47 l, Class 2 of NTA 8800	231204F_CW23	0.10	53.7
5.8 l/min; 47 l, Class 2 of NTA 8800	231204F_CW24	0.10	53.8
5.8 l/min; 47 l, Class 2 of NTA 8800	231204F_CW25	0.10	53.9
average of 3 measurements:		<b>0.10</b>	<b>53.8</b>

Measurement:	file:	flow resistance (bar):	measured efficiency (%):
9.2 l/min; 73l, Class 3 of NTA 8800	231204B_CW32	0.23	47.3
9.2 l/min; 73l, Class 3 of NTA 8800	231204B_CW33	0.23	47.3
9.2 l/min; 73l, Class 3 of NTA 8800	231204B_CW35	0.23	47.4
average of 3 measurements:		<b>0.23</b>	<b>47.3</b>

Measurement:	file:	flow resistance (bar):	measured efficiency (%):
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	231204A_CW43	0.40	41.6
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	231204A_CW44	0.40	41.6
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	231204A_CW45	0.40	41.7
average of 3 measurements:		<b>0.40</b>	<b>41.6</b>

STEADY STATE EFFICIENCIES ARE IDENTICAL TO ABOVE MENTIONED EFFICIENCIES.

## Summary of SHRU measurements

Manufacturer: Zypho  
 Type: PiPe 60 DW  
 Kiwa sample.nr: 10384  
 serial number: 5772AA23



Measurement:	file:	flow resistance (bar):	measured efficiency (%):
5.8 l/min; 47 l, Class 2 of NTA 8800	231206C_CW22	0.04	57.8
5.8 l/min; 47 l, Class 2 of NTA 8800	231206C_CW23	0.04	57.8
5.8 l/min; 47 l, Class 2 of NTA 8800	231206C_CW24	0.04	57.7
average of 3 measurements:		<b>0.04</b>	<b>57.8</b>

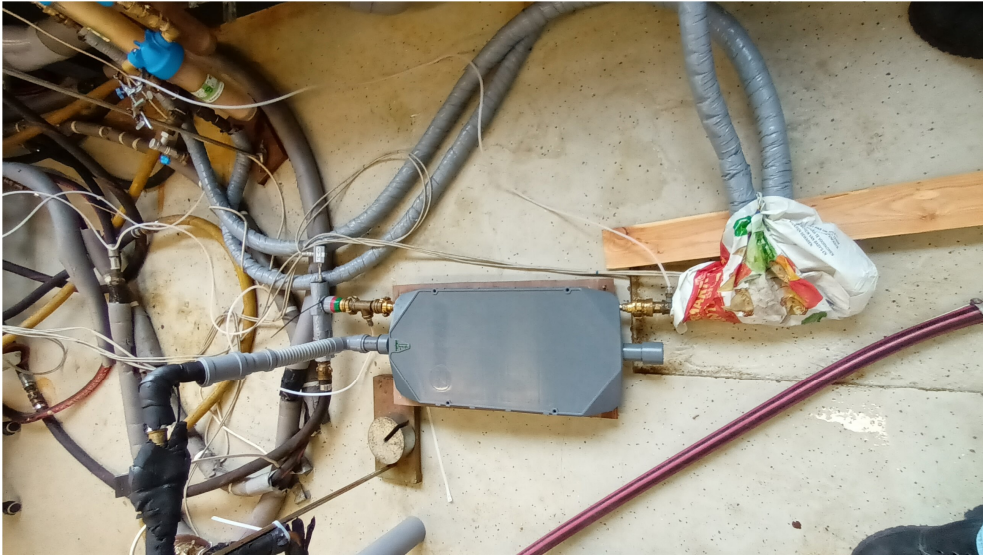
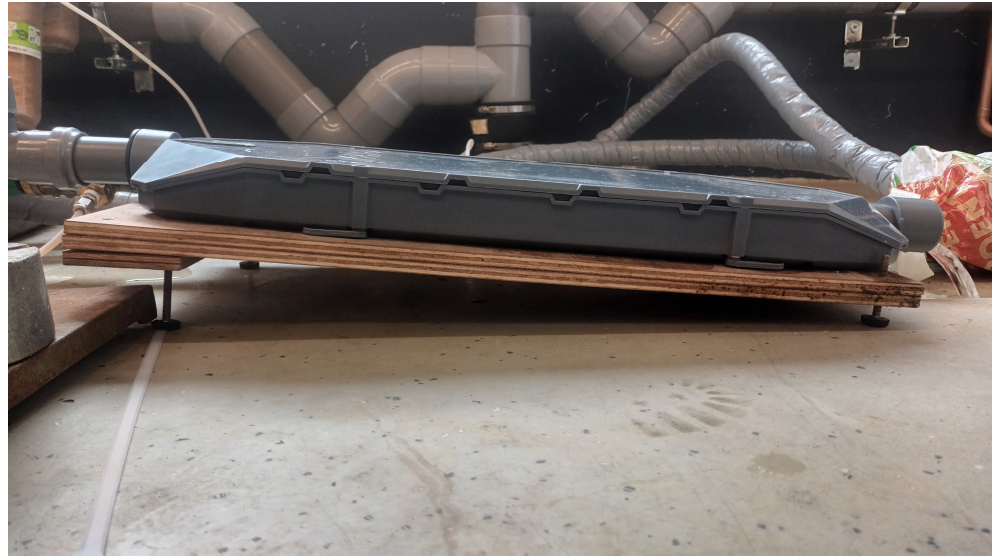
Measurement:	file:	flow resistance (bar):	measured efficiency (%):
9.2 l/min; 73l, Class 3 of NTA 8800	231206a_CW33	0.09	49.4
9.2 l/min; 73l, Class 3 of NTA 8800	231206a_CW34	0.09	49.4
9.2 l/min; 73l, Class 3 of NTA 8800	231206a_CW35	0.09	49.8
average of 3 measurements:		<b>0.09</b>	<b>49.5</b>

Measurement:	file:	flow resistance (bar):	measured efficiency (%):
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	231205A_CW42	0.15	46.8
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	231205A_CW44	0.14	46.9
12.5 l/min; 100l, Class 4,5,6 of NTA 8800	231205A_CW45	0.15	46.8
average of 3 measurements:		<b>0.14</b>	<b>46.8</b>

Measurement:	file:	flow resistance (bar):	measured efficiency (%):
5.8 l/min steady state	231206C_CW21_STEADY-STATE	0.04	59.6
9,2 l/min steady state	231206A_CW31_STEADY-STATE	0.09	50.4
12,5 l/min steady state	231205A_CW41_STEADY-STATE	0.15	47.4



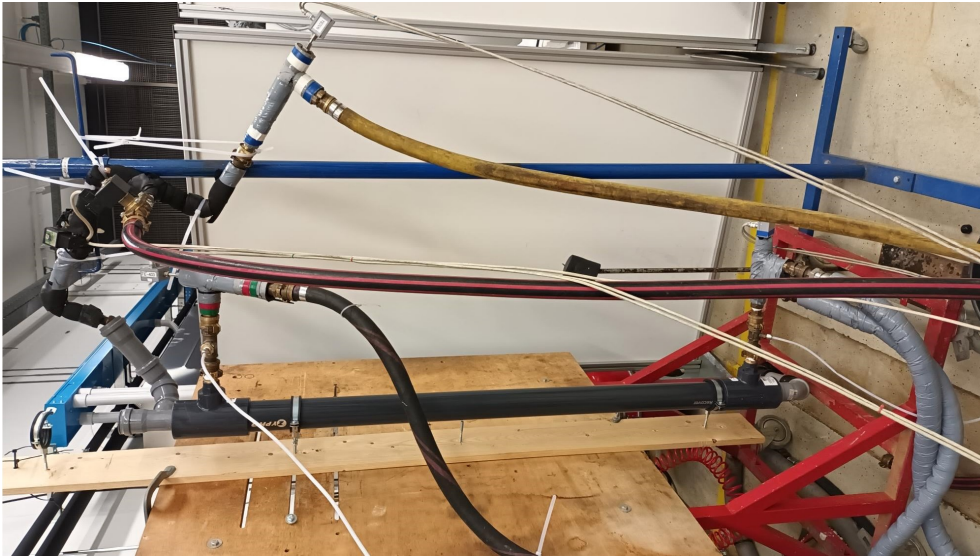
## Appendix 2













## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919A\_CW43

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10278

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919A_CW43.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 11:18
Measurement ended	19/Sep/2023 11:26

## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	20.76
Atmospheric pressure (Avg)	$p_a$	[mbar]	1007.1
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.06
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.14
Tshower (Avg)	$T_{shower}$	[°C]	40.28
Twaste (Avg)	$T_{waste}$	[°C]	47.84
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	100.2
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5829.5
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12557.3
Delta pressure	$p$	[bar]	0.811
Efficency water (tapping point)	$\eta_{H2O}$	[%]	46.4

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	485	12.38	100.16	10.06	24.14	24.14	12557.3	0.0	5829.5	0.0	N





## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919A\_CW44

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10278

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919A_CW44.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 11:31
Measurement ended	19/Sep/2023 11:39



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	20.84
Atmospheric pressure (Avg)	$p_a$	[mbar]	1007.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.06
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	23.88
Tshower (Avg)	$T_{shower}$	[°C]	39.67
Twaste (Avg)	$T_{waste}$	[°C]	47.73
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	102.1
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5835.7
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12542.8
Delta pressure	$p$	[bar]	0.812
Efficency water (tapping point)	$\eta_{H2O}$	[%]	46.5

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	494	12.40	102.07	10.06	23.88	23.88	12542.8	0.0	5835.7	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919A\_CW45

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10278

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919A_CW45.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 11:42
Measurement ended	19/Sep/2023 11:50



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	20.82
Atmospheric pressure (Avg)	$p_a$	[mbar]	1007.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.00
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.00
Tshower (Avg)	$T_{shower}$	[°C]	39.91
Twaste (Avg)	$T_{waste}$	[°C]	47.91
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	101.2
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5854.9
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12557.3
Delta pressure	$p$	[bar]	0.812
Efficency water (tapping point)	$\eta_{H2O}$	[%]	46.6

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	489	12.41	101.15	10.00	24.00	24.00	12557.3	0.0	5854.9	0.0	N



SHRU NTA8800

## Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919B\_CW32

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10278

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919B_CW32.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 12:10
Measurement ended	19/Sep/2023 12:18



## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	20.94
Atmospheric pressure (Avg)	$p_a$	[mbar]	1006.9
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.05
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	25.41
Tshower (Avg)	$T_{shower}$	[°C]	39.90
Twaste (Avg)	$T_{waste}$	[°C]	50.10
Flow (Avg)	$q_v$	[litres/min]	9.2
Volume total	$V$	[litres]	74.1
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4690.2
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9182.3
Delta pressure	$p$	[bar]	0.473
Efficency water (tapping point)	$\eta_{H2O}$	[%]	51.1

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	482	9.22	74.11	10.05	25.41	25.41	9182.3	0.0	4690.2	0.0	N



# SHRU NTA8800

## Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919B\_CW34

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10278

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### GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919B_CW34.TPM
Comment	

### MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 13:09
Measurement ended	19/Sep/2023 13:17



## MEASUREMENT DATA

Tambient (Avg)	T <sub>a</sub>	[°C]	21.04
Atmospheric pressure (Avg)	p <sub>a</sub>	[mbar]	1006.3
Tdomestic-in (Avg)	T <sub>dom-in</sub>	[°C]	9.96
Tdomestic-out (Avg)	T <sub>dom-out</sub>	[°C]	25.81
Tshower (Avg)	T <sub>shower</sub>	[°C]	40.72
Twaste (Avg)	T <sub>waste</sub>	[°C]	50.49
Flow (Avg)	q <sub>v</sub>	[litres/min]	9.2
Volume total	V	[litres]	71.9
Quseful (device)	Q <sub>H2O_dev</sub>	[kJ]	4704.6
Quseful (tapping point)	Q <sub>H2O_tap</sub>	[kJ]	9176.8
Delta pressure	p	[bar]	0.469
Efficency water (tapping point)	η <sub>H2O</sub>	[%]	51.3

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	468	9.21	71.91	9.96	25.81	25.81	9176.8	0.0	4704.6	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919B\_CW35

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10278

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919B_CW35.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 13:19
Measurement ended	19/Sep/2023 13:27

## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	21.17
Atmospheric pressure (Avg)	$p_a$	[mbar]	1006.2
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.95
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	25.53
Tshower (Avg)	$T_{shower}$	[°C]	40.23
Twaste (Avg)	$T_{waste}$	[°C]	50.34
Flow (Avg)	$q_v$	[litres/min]	9.2
Volume total	$V$	[litres]	73.0
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4692.7
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9175.5
Delta pressure	$p$	[bar]	0.473
Efficency water (tapping point)	$\eta_{H2O}$	[%]	51.1



SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	476	9.21	73.04	9.95	25.53	25.53	9175.5	0.0	4692.7	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919C\_CW21

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10275

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919C_CW21.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 14:01
Measurement ended	19/Sep/2023 14:09

## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	21.02
Atmospheric pressure (Avg)	$p_a$	[mbar]	1006.2
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.05
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	26.11
Tshower (Avg)	$T_{shower}$	[°C]	40.29
Twaste (Avg)	$T_{waste}$	[°C]	55.00
Flow (Avg)	$q_v$	[litres/min]	5.7
Volume total	$V$	[litres]	47.1
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3102.7
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5905.3
Delta pressure	$p$	[bar]	0.197
Efficency water (tapping point)	$\eta_{H2O}$	[%]	52.5

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	497	5.68	47.05	10.05	26.11	26.11	5905.3	0.0	3102.7	0.0	N



# SHRU NTA8800

## Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919C\_CW23

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10275

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### GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919C_CW23.TPM
Comment	

### MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 14:24
Measurement ended	19/Sep/2023 14:33



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	20.93
Atmospheric pressure (Avg)	$p_a$	[mbar]	1006.1
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.07
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	25.83
Tshower (Avg)	$T_{shower}$	[°C]	39.72
Twaste (Avg)	$T_{waste}$	[°C]	54.35
Flow (Avg)	$q_v$	[litres/min]	5.7
Volume total	$V$	[litres]	47.9
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3107.2
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5894.3
Delta pressure	$p$	[bar]	0.195
Efficency water (tapping point)	$\eta_{H2O}$	[%]	52.7

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	507	5.67	47.92	10.07	25.83	25.83	5894.3	0.0	3107.2	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\230919C\_CW24

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Slim DW50  
**Serial No.:** 10275

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\230919C_CW24.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMIDATA\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	19/Sep/2023 14:35
Measurement ended	19/Sep/2023 14:43



## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	20.91
Atmospheric pressure (Avg)	$p_a$	[mbar]	1006.1
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.01
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	25.99
Tshower (Avg)	$T_{shower}$	[°C]	40.10
Twaste (Avg)	$T_{waste}$	[°C]	54.31
Flow (Avg)	$q_v$	[litres/min]	5.7
Volume total	$V$	[litres]	47.2
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3105.9
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5898.4
Delta pressure	$p$	[bar]	0.195
Efficency water (tapping point)	$\eta_{H2O}$	[%]	52.7

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required Achieved</sub>
0	500	5.67	47.24	10.01	25.99	25.99	5898.4	0.0	3105.9	0.0	N



# SHRU NTA8800

## Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\231204A\_CW43

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Pipe DW 50 (1,25m)  
**Serial No.:** kiwanr: 10383

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### GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\231204A_CW43.TPM
Comment	

### MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 14:28
Measurement ended	04/Dec/2023 14:36



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.25
Atmospheric pressure (Avg)	$p_a$	[mbar]	1003.4
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.79
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	22.36
Tshower (Avg)	$T_{shower}$	[°C]	40.03
Twaste (Avg)	$T_{waste}$	[°C]	49.56
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	100.2
Quseful (device)	$Q_{H_2O\_dev}$	[kJ]	5225.3
Quseful (tapping point)	$Q_{H_2O\_tap}$	[kJ]	12575.9
Delta pressure	$p$	[bar]	0.401
Efficency water (tapping point)	$\eta_{H_2O}$	[%]	41.6

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	485	12.40	100.23	9.79	22.36	22.36	12575.9	0.0	5225.3	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\231204A\_CW44

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Pipe DW 50 (1,25m)  
**Serial No.:** kiwanr: 10383

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\231204A_CW44.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 14:38
Measurement ended	04/Dec/2023 14:46



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.19
Atmospheric pressure (Avg)	$p_a$	[mbar]	1003.2
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.89
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	22.44
Tshower (Avg)	$T_{shower}$	[°C]	40.03
Twaste (Avg)	$T_{waste}$	[°C]	49.63
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	100.3
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5221.5
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12544.7
Delta pressure	$p$	[bar]	0.400
Efficency water (tapping point)	$\eta_{H2O}$	[%]	41.6

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful</sub> dev [kJ]	Q <sub>loss</sub> dev [kJ]	T <sub>required</sub> Achieved
0	485	12.41	100.30	9.89	22.44	22.44	12544.7	0.0	5221.5	0.0	N





## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\231204A\_CW45

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** Pipe DW 50 (1,25m)  
**Serial No.:** kiwanr: 10383

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\231204A_CW45.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 14:48
Measurement ended	04/Dec/2023 14:56



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.27
Atmospheric pressure (Avg)	$p_a$	[mbar]	1003.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.97
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	22.51
Tshower (Avg)	$T_{shower}$	[°C]	40.03
Twaste (Avg)	$T_{waste}$	[°C]	49.71
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	100.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5228.5
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12542.8
Delta pressure	$p$	[bar]	0.400
Efficency water (tapping point)	$\eta_{H2O}$	[%]	41.7

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	486	12.41	100.57	9.97	22.51	22.51	12542.8	0.0	5228.5	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\CW3\231204B\_CW32

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 55  
**Serial No.:** kiwanr: 10383

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\CW3\231204B_CW32.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 15:22
Measurement ended	04/Dec/2023 15:30



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.24
Atmospheric pressure (Avg)	$p_a$	[mbar]	1002.6
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.85
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.13
Tshower (Avg)	$T_{shower}$	[°C]	40.02
Twaste (Avg)	$T_{waste}$	[°C]	57.85
Flow (Avg)	$q_v$	[litres/min]	9.1
Volume total	$V$	[litres]	73.3
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4339.4
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9172.4
Delta pressure	$p$	[bar]	0.228
Efficency water (tapping point)	$\eta_{H2O}$	[%]	47.3

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	482	9.11	73.26	9.85	24.13	24.13	9172.4	0.0	4339.4	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\CW3\231204B\_CW33

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 55  
**Serial No.:** kiwanr: 10383

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\CW3\231204B_CW33.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 15:32
Measurement ended	04/Dec/2023 15:40



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.29
Atmospheric pressure (Avg)	$p_a$	[mbar]	1002.5
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.88
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.15
Tshower (Avg)	$T_{shower}$	[°C]	40.01
Twaste (Avg)	$T_{waste}$	[°C]	57.84
Flow (Avg)	$q_v$	[litres/min]	9.1
Volume total	$V$	[litres]	73.4
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4345.6
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9182.1
Delta pressure	$p$	[bar]	0.228
Efficency water (tapping point)	$\eta_{H2O}$	[%]	47.3



SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	483	9.11	73.44	9.88	24.15	24.15	9182.1	0.0	4345.6	0.0	N



# SHRU NTA8800

## Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\CW3\231204B\_CW35

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 55  
**Serial No.:** kiwanr: 10383

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### GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\CW3\231204B_CW35.TPM
Comment	

### MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 15:52
Measurement ended	04/Dec/2023 16:01



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.26
Atmospheric pressure (Avg)	$p_a$	[mbar]	1002.4
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.02
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.23
Tshower (Avg)	$T_{shower}$	[°C]	40.01
Twaste (Avg)	$T_{waste}$	[°C]	57.92
Flow (Avg)	$q_v$	[litres/min]	9.1
Volume total	$V$	[litres]	73.7
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4341.1
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9165.3
Delta pressure	$p$	[bar]	0.228
Efficency water (tapping point)	$\eta_{H2O}$	[%]	47.4

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	485	9.11	73.65	10.02	24.23	24.23	9165.3	0.0	4341.1	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518

**Report nr:**

D:\RMIDATA\Zypho\10383\CW2\231204C\_CW22

**Installation:** ETR-H7

**Test engineer:** Rouweler

**Manufacturer:** Zypho

**Year of manufacture:** 2023

**Model:** PiPe DW 55

**Serial No.:** kiwanr: 10383

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\CW2\231204C_CW22.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 16:25
Measurement ended	04/Dec/2023 16:34



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.43
Atmospheric pressure (Avg)	$p_a$	[mbar]	1002.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.13
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	26.10
Tshower (Avg)	$T_{shower}$	[°C]	40.00
Twaste (Avg)	$T_{waste}$	[°C]	61.99
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	47.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3153.8
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5901.9
Delta pressure	$p$	[bar]	0.099
Efficency water (tapping point)	$\eta_{H2O}$	[%]	53.4

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required Achieved</sub>
0	506	5.65	47.61	10.13	26.10	26.10	5901.9	0.0	3153.8	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\CW2\231204C\_CW23

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 55  
**Serial No.:** kiwanr: 10383

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\CW2\231204C_CW23.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 16:36
Measurement ended	04/Dec/2023 16:45





## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.46
Atmospheric pressure (Avg)	$p_a$	[mbar]	1002.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.10
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	26.16
Tshower (Avg)	$T_{shower}$	[°C]	39.99
Twaste (Avg)	$T_{waste}$	[°C]	63.19
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	47.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3170.3
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5905.8
Delta pressure	$p$	[bar]	0.100
Efficency water (tapping point)	$\eta_{H2O}$	[%]	53.7

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	506	5.65	47.60	10.10	26.16	26.16	5905.8	0.0	3170.3	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10383\CW2\231204C\_CW24

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 55  
**Serial No.:** kiwanr: 10383

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10383\CW2\231204C_CW24.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	04/Dec/2023 16:47
Measurement ended	04/Dec/2023 16:55



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.40
Atmospheric pressure (Avg)	$p_a$	[mbar]	1001.9
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.12
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	26.21
Tshower (Avg)	$T_{shower}$	[°C]	40.00
Twaste (Avg)	$T_{waste}$	[°C]	62.57
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	47.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3178.0
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5905.2
Delta pressure	$p$	[bar]	0.099
Efficency water (tapping point)	$\eta_{H2O}$	[%]	53.8

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	506	5.65	47.63	10.12	26.21	26.21	5905.2	0.0	3178.0	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518

**Report nr:**

D:\RMIDATA\Zypho\10384\CW4\231205A\_CW42

**Installation:** ETR-H7

**Test engineer:** Rouweler

**Manufacturer:** Zypho

**Year of manufacture:** 2023

**Model:** PiPe DW 60

**Serial No.:** 10384

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW4\231205A_CW42.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	05/Dec/2023 16:37
Measurement ended	05/Dec/2023 16:45



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.28
Atmospheric pressure (Avg)	$p_a$	[mbar]	1003.6
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.97
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.03
Tshower (Avg)	$T_{shower}$	[°C]	40.03
Twaste (Avg)	$T_{waste}$	[°C]	50.40
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	100.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5871.4
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12541.0
Delta pressure	$p$	[bar]	0.145
Efficency water (tapping point)	$\eta_{H2O}$	[%]	46.8

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	486	12.41	100.56	9.97	24.03	24.03	12541.0	0.0	5871.4	0.0	N





## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW4\231205A\_CW44

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW4\231205A_CW44.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	05/Dec/2023 16:58
Measurement ended	05/Dec/2023 17:06



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.14
Atmospheric pressure (Avg)	$p_a$	[mbar]	1004.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.09
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.10
Tshower (Avg)	$T_{shower}$	[°C]	40.03
Twaste (Avg)	$T_{waste}$	[°C]	50.39
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	101.1
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5883.0
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12556.9
Delta pressure	$p$	[bar]	0.144
Efficency water (tapping point)	$\eta_{H2O}$	[%]	46.9

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	489	12.41	101.10	10.09	24.10	24.10	12556.9	0.0	5883.0	0.0	N



# SHRU NTA8800

## Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW4\231205A\_CW45

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

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### GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW4\231205A_CW45.TPM
Comment	

### MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	05/Dec/2023 17:08
Measurement ended	05/Dec/2023 17:16



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.16
Atmospheric pressure (Avg)	$p_a$	[mbar]	1004.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.83
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	23.94
Tshower (Avg)	$T_{shower}$	[°C]	40.03
Twaste (Avg)	$T_{waste}$	[°C]	50.33
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	100.4
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5883.9
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12578.6
Delta pressure	$p$	[bar]	0.145
Efficency water (tapping point)	$\eta_{H2O}$	[%]	46.8

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	485	12.41	100.39	9.83	23.94	23.94	12578.6	0.0	5883.9	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518

**Report nr:**

D:\RMIDATA\Zypho\10384\CW3\231206A\_CW33

**Installation:** ETR-H7

**Test engineer:** Rouweler

**Manufacturer:** Zypho

**Year of manufacture:** 2023

**Model:** PiPe DW 60

**Serial No.:** 10384

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW3\231206A_CW33.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 10:22
Measurement ended	06/Dec/2023 10:30



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.83
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.3
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.02
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.82
Tshower (Avg)	$T_{shower}$	[°C]	40.00
Twaste (Avg)	$T_{waste}$	[°C]	52.12
Flow (Avg)	$q_v$	[litres/min]	9.1
Volume total	$V$	[litres]	73.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4521.9
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9154.6
Delta pressure	$p$	[bar]	0.085
Efficency water (tapping point)	$\eta_{H2O}$	[%]	49.4



SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	484	9.12	73.59	10.02	24.82	24.82	9154.6	0.0	4521.9	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW3\231206A\_CW34

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW3\231206A_CW34.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 10:32
Measurement ended	06/Dec/2023 10:40



## MEASUREMENT DATA

Tambient (Avg)	T <sub>a</sub>	[°C]	19.67
Atmospheric pressure (Avg)	p <sub>a</sub>	[mbar]	1012.4
Tdomestic-in (Avg)	T <sub>dom-in</sub>	[°C]	10.08
Tdomestic-out (Avg)	T <sub>dom-out</sub>	[°C]	24.96
Tshower (Avg)	T <sub>shower</sub>	[°C]	40.00
Twaste (Avg)	T <sub>waste</sub>	[°C]	52.12
Flow (Avg)	q <sub>v</sub>	[litres/min]	9.1
Volume total	V	[litres]	73.9
Quseful (device)	Q <sub>H2O_dev</sub>	[kJ]	4565.4
Quseful (tapping point)	Q <sub>H2O_tap</sub>	[kJ]	9171.0
Delta pressure	p	[bar]	0.085
Efficency water (tapping point)	η <sub>H2O</sub>	[%]	49.8

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	486	9.11	73.86	10.08	24.96	24.96	9171.0	0.0	4565.4	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW3\231206A\_CW35

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW3\231206A_CW35.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 10:43
Measurement ended	06/Dec/2023 10:51

## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.36
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.5
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.13
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.87
Tshower (Avg)	$T_{shower}$	[°C]	40.00
Twaste (Avg)	$T_{waste}$	[°C]	52.08
Flow (Avg)	$q_v$	[litres/min]	9.1
Volume total	$V$	[litres]	74.0
Quseful (device)	$Q_{H_2O\_dev}$	[kJ]	4529.6
Quseful (tapping point)	$Q_{H_2O\_tap}$	[kJ]	9170.2
Delta pressure	$p$	[bar]	0.085
Efficency water (tapping point)	$\eta_{H_2O}$	[%]	49.4

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	487	9.11	73.99	10.13	24.87	24.87	9170.2	0.0	4529.6	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518

**Report nr:**

D:\RMIDATA\Zypho\10384\CW2\231206C\_CW22

**Installation:** ETR-H7

**Test engineer:** Rouweler

**Manufacturer:** Zypho

**Year of manufacture:** 2023

**Model:** PiPe DW 60

**Serial No.:** 10384

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## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW2\231206C_CW22.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 11:19
Measurement ended	06/Dec/2023 11:28





## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.61
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.5
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.07
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	27.34
Tshower (Avg)	$T_{shower}$	[°C]	39.97
Twaste (Avg)	$T_{waste}$	[°C]	52.01
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	47.6
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3410.1
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5899.9
Delta pressure	$p$	[bar]	0.040
Efficency water (tapping point)	$\eta_{H2O}$	[%]	57.8

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	505	5.65	47.56	10.07	27.34	27.34	5899.9	0.0	3410.1	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW2\231206C\_CW23

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

---

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW2\231206C_CW23.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 11:30
Measurement ended	06/Dec/2023 11:38



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.69
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.4
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.10
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	27.37
Tshower (Avg)	$T_{shower}$	[°C]	40.00
Twaste (Avg)	$T_{waste}$	[°C]	52.04
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	47.5
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3408.5
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5897.1
Delta pressure	$p$	[bar]	0.040
Efficency water (tapping point)	$\eta_{H2O}$	[%]	57.8

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	505	5.65	47.53	10.10	27.37	27.37	5897.1	0.0	3408.5	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW2\231206C\_CW24

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

---

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW2\231206C_CW24.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 11:41
Measurement ended	06/Dec/2023 11:49



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.71
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.5
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.13
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	27.37
Tshower (Avg)	$T_{shower}$	[°C]	40.00
Twaste (Avg)	$T_{waste}$	[°C]	52.05
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	47.7
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3413.3
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5911.0
Delta pressure	$p$	[bar]	0.040
Efficency water (tapping point)	$\eta_{H2O}$	[%]	57.7

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	507	5.65	47.69	10.13	27.37	27.37	5911.0	0.0	3413.3	0.0	N





## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518

**Report nr:**

D:\RMIDATA\Zypho\10384\CW4\231205A\_CW41

**Installation:** ETR-H7

**Test engineer:** Rouweler

**Manufacturer:** Zypho

**Year of manufacture:** 2023

**Model:** PiPe DW 60

**Serial No.:** 10384

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW4\231205A_CW41.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\dwtw4epg_12.3.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	05/Dec/2023 16:27
Measurement ended	05/Dec/2023 16:35

## Shower Heat Recovery Unit

## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.32
Atmospheric pressure (Avg)	$p_a$	[mbar]	1003.4
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.93
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.12
Tshower (Avg)	$T_{shower}$	[°C]	39.90
Twaste (Avg)	$T_{waste}$	[°C]	52.17
Flow (Avg)	$q_v$	[litres/min]	12.4
Volume total	$V$	[litres]	101.1
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	5954.3
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	12573.3
Delta pressure	$p$	[bar]	0.145
Efficency water (tapping point)	$\eta_{H2O}$	[%]	47.4

SHRU NTA8800

## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	489	12.41	101.10	9.93	24.12	24.12	12573.3	0.0	5954.3	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518

**Report nr:**

D:\RMIDATA\Zypho\10384\CW3\231206A\_CW31

**Installation:** ETR-H7

**Test engineer:** Rouweler

**Manufacturer:** Zypho

**Year of manufacture:** 2023

**Model:** PiPe DW 60

**Serial No.:** 10384

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW3\231206A_CW31.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW3epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 10:01
Measurement ended	06/Dec/2023 10:10



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.60
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.0
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	9.95
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	24.94
Tshower (Avg)	$T_{shower}$	[°C]	39.72
Twaste (Avg)	$T_{waste}$	[°C]	52.21
Flow (Avg)	$q_v$	[litres/min]	9.1
Volume total	$V$	[litres]	74.2
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	4614.9
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	9164.7
Delta pressure	$p$	[bar]	0.086
Efficency water (tapping point)	$\eta_{H2O}$	[%]	50.4

SHRU NTA8800

Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	489	9.11	74.20	9.95	24.94	24.94	9164.7	0.0	4614.9	0.0	N



## SHRU NTA8800

### Shower Heat Recovery Unit

**Project nr:** P000320518  
**Report nr:**  
D:\RMIDATA\Zypho\10384\CW2\231206C\_CW21

**Installation:** ETR-H7  
**Test engineer:** Rouweler

**Manufacturer:** Zypho  
**Year of manufacture:** 2023

**Model:** PiPe DW 60  
**Serial No.:** 10384

---

## GENERAL DATA

Software	DWTW.VEE
Version	T0.88d_Gd.evelopment\VEE\GeneralLib_I1.42_H1.25_F0.14_EP0.15_FL0.35_CP0.28(12/06/2014)
Type of measurement	Tapping cycle
According to	NTA8800 annex U
Data file	D:\RMIDATA\Zypho\10384\CW2\231206C_CW21.TPM
Comment	

## MEASUREMENT PROGRAM

Tap profile	D:\RMI\Tap_Patterns\DWTW\DWTW2epg.tpt
Maximum deviation	3
Measuring point requested energy	Tapping point
Measurement started	06/Dec/2023 11:09
Measurement ended	06/Dec/2023 11:17



## MEASUREMENT DATA

Tambient (Avg)	$T_a$	[°C]	19.59
Atmospheric pressure (Avg)	$p_a$	[mbar]	1012.6
Tdomestic-in (Avg)	$T_{dom-in}$	[°C]	10.11
Tdomestic-out (Avg)	$T_{dom-out}$	[°C]	27.74
Tshower (Avg)	$T_{shower}$	[°C]	39.67
Twaste (Avg)	$T_{waste}$	[°C]	52.13
Flow (Avg)	$q_v$	[litres/min]	5.6
Volume total	$V$	[litres]	48.1
Quseful (device)	$Q_{H2O\_dev}$	[kJ]	3520.6
Quseful (tapping point)	$Q_{H2O\_tap}$	[kJ]	5902.9
Delta pressure	$p$	[bar]	0.040
Efficency water (tapping point)	$\eta_{H2O}$	[%]	59.6



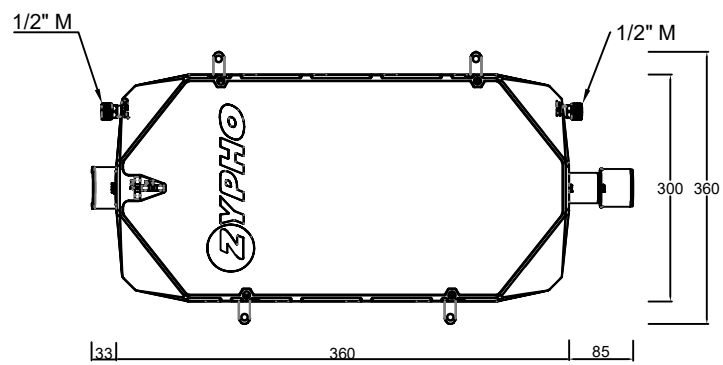
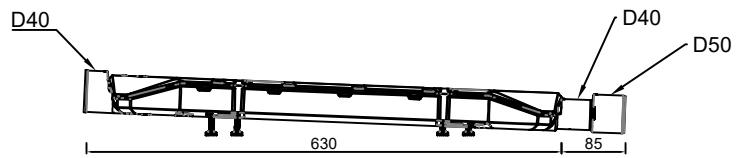
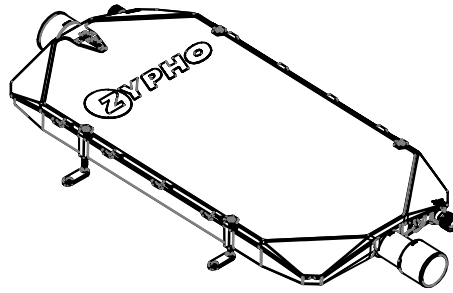
SHRU NTA8800


## Shower Heat Recovery Unit



t-start [sec]	t-end [sec]	Flow [l/min]	Volume [litres]	T <sub>dom-in</sub> [°C]	T <sub>dom-out</sub> [°C]	T <sub>tap-point</sub> [°C]	Q <sub>useful</sub> [kJ]	Q <sub>loss</sub> [kJ]	Q <sub>useful dev</sub> [kJ]	Q <sub>loss dev</sub> [kJ]	T <sub>required</sub> Achieved
0	511	5.65	48.12	10.11	27.74	27.74	5902.9	0.0	3520.6	0.0	N

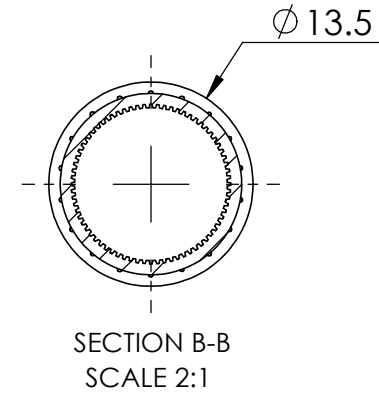
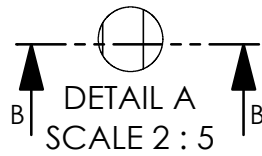
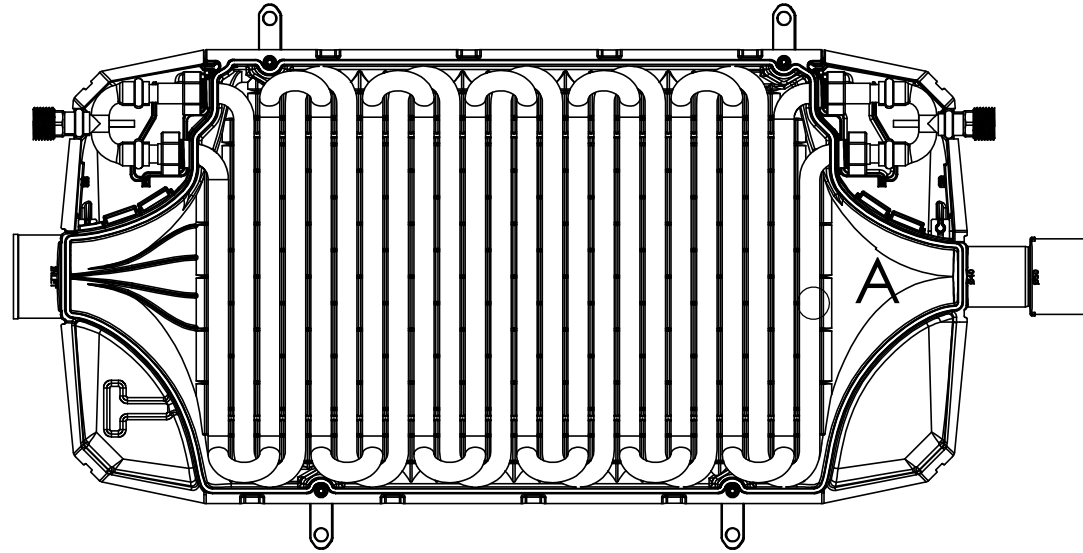
## Appendix 3

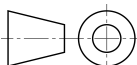


		Empresa / Company		Zypho, S.A.
		Projeto / Project		Zypho Slim
Escala / Scale	Tolerância / Tolerance	Descrição / Description		
1:10	+/- 2%	Technical drawing		
Desenhador / Designer		Data / Date		Desenho nº / Drawing no.
João Manuel Rego		31/08/23		MG_DTEN0823V1
		Formato / Size A4		Unidades / Units in

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REFERENCE	REV	REVISION HISTORY	DATE	APPROVED
		DESCRIPTION		
Zypho Slim 50 - Inner Features				




 GENERAL TOLERANCES FOR DIMENSIONS  
 WITHOUT INDIVIDUAL INDICATION  
 ISO 2768 - mK

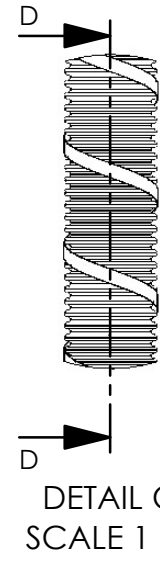
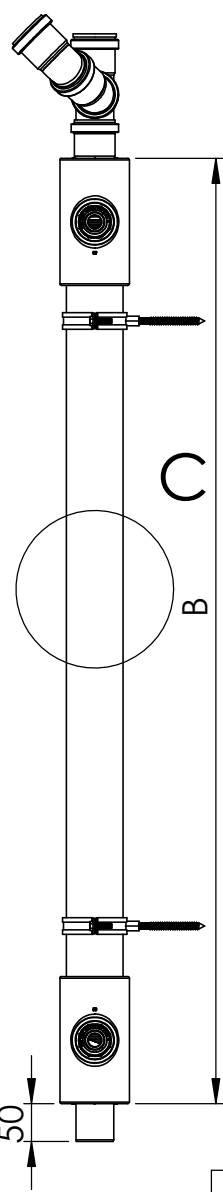
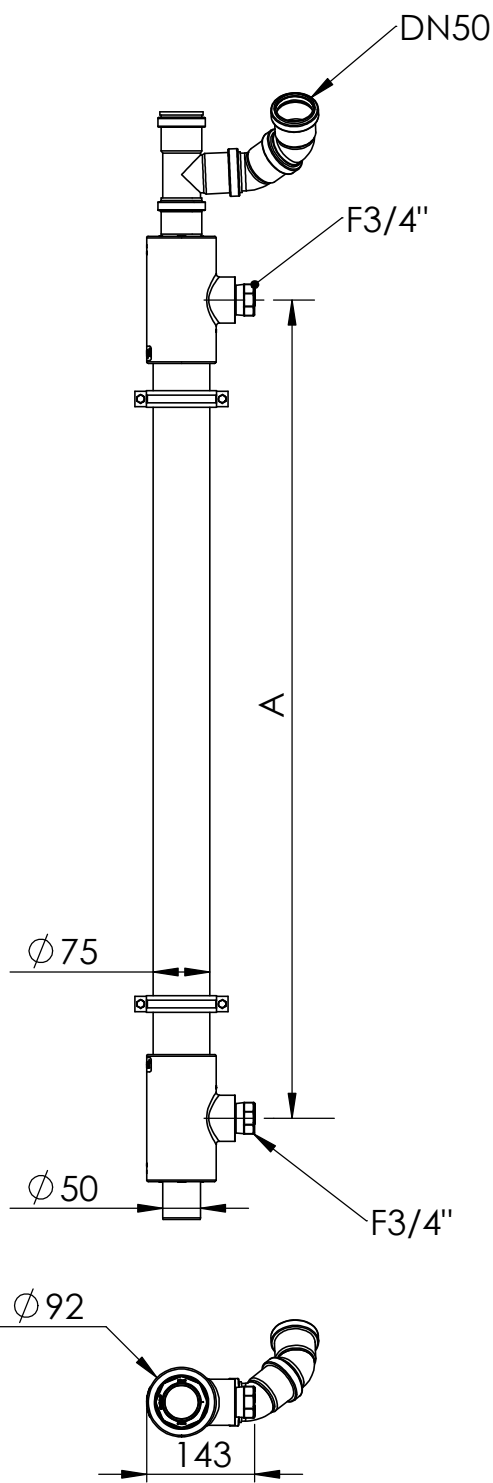


NAME		Zypho Slim 50 - Inner Features	
APPROVALS	DATE	REFERENCE NO	
DESIGNED	João Manuel Rego	29/11/2023	DRAWING NO
CHECKED	João Manuel Rego	29/11/2023	REVISION NO
APPROVED	José Meliço	29/11/2023	SCALE 1:5

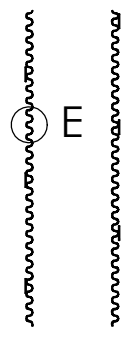
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REVISION HISTORY

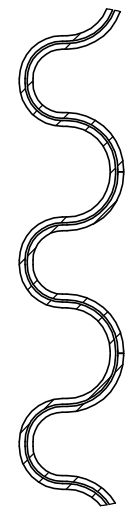
REFERENCE	REV	DESCRIPTION	DATE	APPROVED
ZYPI**GDTP00	1.2	Zypho PiPe DW	10/02/2023	José Meliço



DETAIL C  
SCALE 1 : 5



SECTION D-D  
SCALE 1 : 5



DETAIL E  
SCALE 3 : 1

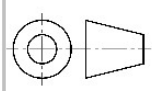
	A	B
Zypho PiPe DW 55	1082	1250
Zypho PiPe DW 60	1432	1600



GENERAL TOLERANCES FOR DIMENSIONS WITHOUT INDIVIDUAL INDICATION  
ISO 2768 - mK

NAME  
Zypho PiPe DW

[mm]	APPROVALS		DATE	REFERENCE NO	ZYPI**GDTP00
	DESIGNED	João Rego	10/02/2023	DRAWING NO	ZYPI**GDTP00_1
CHECKED	João Rego	10/02/2023	REVISION NO	1.2	
APPROVED	José Meliço	10/02/2023	SCALE	1:10	

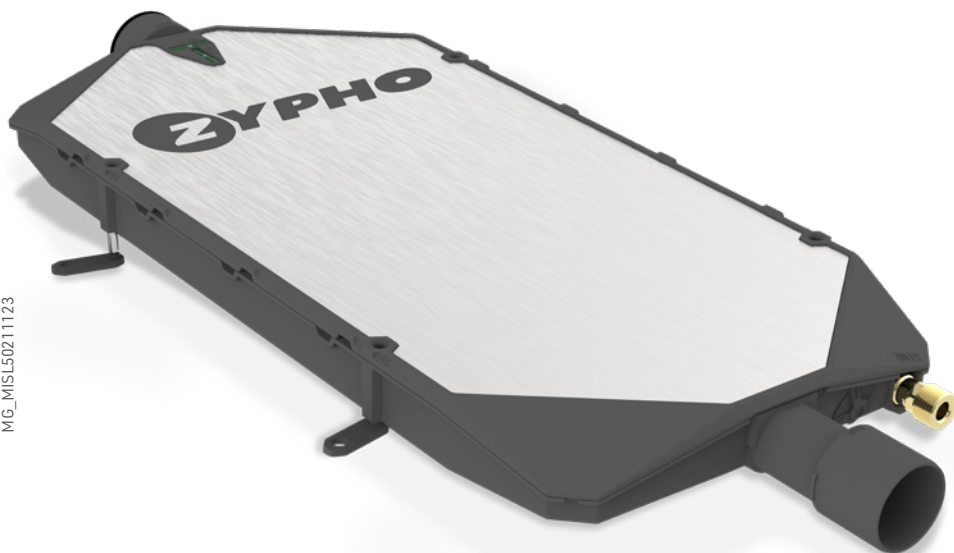


## Appendix 4

IMPORTANT  
IMPORTANTE  
WICHTIG  
WAŻNY  
BELANGRIJK



-  INSTALLATION MANUAL
-  MANUAL DE INSTALAÇÃO
-  MANUAL DE INSTALACIÓN
-  INSTALLATION MANUEL
-  INSTALLATIONSANLEITUNG
-  INSTRUKCJA INSTALACJI
-  INSTALLATIEHANDLEIDING



MG\_MISL50211123

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B2B@ALIAXIS.COM

**Slim50**

SHOWERVALVE  
BATH VALVE  
SQUARE DRAIN 10CM  
LINEAR DRAIN 70|80|90CM

ZYSL50GDTPSV  
ZYSL50GDTPBV  
ZYSL50GDTPL1  
ZYSL50GDTPL7 | ZYSL50GDTPL8 | ZYSL50GDTPL9



## TECHNICAL DATA

Before proceeding to assembly, please make sure all the following conditions are verified

- Max. water pressure endured: 6 bar
- Recommended flow rate: 12,5L/min
- Maximum flow rate: 25,0 L/min
- Max. water temperature: 60°C
- Min. height clearance: 90mm

## INSTALLATION INSTRUCTIONS

Zypho® S|im Heat Exchangers are provided as a complete bundle.

Please check the content of the package for completeness and integrity before proceeding. Should any deviations be noted, please consult your supplier and do not start the assembly. You must never alter or modify the provided components by Zypho®. For a proper installation, please use these components only.

Before the freshwater connection a non-return valve and a shut-off valve should be installed (type EA). Before the preheated water connection a shut-off valve should be installed (type EA).

We recommend the use of a thermostatic shower mixer. NON-COMPLIANCE WITH THESE RECOMMENDATIONS FOR INSTALLATION AND USE MAY VOID ANY WARRANTY.

## SAFETY

Zypho® S|im Heat Exchangers are double walled, according to European regulation EN 1717 ("Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution").

We test all Zypho® units in our factory before shipping. The main water circuit is pressurized up to 6 bar to ensure that there are no leaks or defects.

## MAINTENANCE

Zypho® S|im Heat Exchangers have been designed to require minimal maintenance efforts.

They must be installed with the shower drain provided. Periodic cleaning is recommended to optimise energy exchange. Use a non-corrosive drain cleaner or a water jet. We recommend our water jet brush ZYMN0000J1.

 INSTALLATION CONFIGURATION OPTIONS	P. 6	 INSTALLATION GUIDE	P. 8-11
 COMPONENTS AND DIMENSIONS	P. 7		

## UK IMPORTANT REMARKS



### INSTALLATION

The preheated water supply inline of the ZYPHO S|im must be insulated in accordance with the requirements of the 'Building Services Compliance Guide'. Pipework between the WWHRs preheated water outlet and the water heater and/or shower cold water inlet(s) (depending on installation configuration) must be labelled to indicate that no other services can be interconnected.

System A: Installation configuration 1

System B: Installation configuration 2

System C: Installation configuration 3

Energy Saving Performance Recognised by SAP

The successful operation of the ZYPHO S|im which is a Waste Water Heat Recovery System (WWHRs) - Instantaneous Shower Heat Recovery Device, depends entirely upon the adherence to these instructions. Additionally, for new-build dwellings within the UK, recognition of the system's energy saving performance within the National Calculation Methodology (NCM) for the energy rating of dwellings, known as the Standard Assessment Procedure (SAP) requires that these instructions are compiled with in conjunction with a system design checklist and an installation checklist and certificate of installation, supplied with this document and available at: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap).

The system should be installed by a suitably qualified plumber, with system design consideration being equally important to a correct installation. For recognition of the ZYPHO S|im within SAP, a system design checklist and an installation checklist and certificate of installation should be completed and signed, with copies kept for the home user pack (home owner), the installer, and sent to ZYPHO at the post or e-mail address shown below. Building Control Officers may also request a copy. For the purpose of system identification of product data without SAP, the product will have an NCM (SAP) Identifier label permanently fixed to the unit, whereby the 'model qualifier' states 'refer to installation certificate, if unknown assume System B'. A second NCM (SAP) Identifier label is also supplied and must be affixed to a nearby boiler or service cupboard (the label must be visible for inspection without disassembly of nearby products or systems) and the 'model qualifier' states 'System A, System B or System C delete as appropriate'. Not sending back the completed and signed system design checklist, the installation checklist and certificate of installation to ZYPHO will invalidate the guarantee.

Address: Tower Plaza I, Via Eng. Edgar Cardoso 23, 5º H  
4400-676 Vila Nova de Gaia, PORTUGAL  
E-mail: [b2b@alixis.com](mailto:b2b@alixis.com)





## DADOS TÉCNICOS

Antes de proceder à instalação, por favor certifique-se que todas as condições seguintes se verificam:

- Pressão da água máxima: 6 bar
- Caudal recomendado: 12,5L/min
- Caudal máximo: 25,0 L/min
- Temperatura da água máxima: 60°C
- Altura mínima necessária: 90mm

## AVISOS DE MONTAGEM

Os Recuperadores de Calor Zylpho® são fornecidos num pack completo. Por favor, verifique se todas as peças se encontram na embalagem. Caso haja alguma anomalia, consulte o seu fornecedor e não inicie a montagem.

Nunca deverá alterar ou modificar qualquer dos componentes fornecidos pela Zylpho®. Para uma instalação correta, use apenas estes componentes.

Antes da ligação de entrada da água fria da rede, deverá ser instalada uma válvula de seccionamento e de antirretorno (tipo EA). Antes da ligação de saída da água pré-aquecida, deverá ser instalada uma válvula de antirretorno (tipo EA).

Sugerimos a utilização de torneira de duche termostática.

A NÃO CONFORMIDADE COM ESTAS RECOMENDAÇÕES DE INSTALAÇÃO E USO PODE ANULAR QUALQUER GARANTIA.

## SEGURANÇA

Os Recuperadores de Calor Zylpho® S|im têm parede dupla, em conformidade com a regulação europeia EN 1717 ("Proteção contra a poluição de água potável nas instalações hidráulicas e requisitos gerais dos dispositivos aptos a prevenir a poluição por refluxo"). Todos os Zylpho® são testados na nossa fábrica antes da sua expedição. O circuito de água principal é pressurizado até 9 bar para garantir que não há fugas ou defeitos.

## MANUTENÇÃO

Os Recuperadores de Calor Zylpho® S|im foram desenhados de forma a requerer esforços de manutenção mínimos. Devem ser instalados com a válvula fornecida. Recomenda-se uma limpeza periódica para otimizar a eficiência. Use um desentupidor de canos não corrosivo ou um jato de água. Recomendamos a nossa escova de jato de água ZYMN00000J1.



OPÇÕES DE CONFIGURAÇÃO DE INSTALAÇÃO

P. 6



GUIA DE INSTALAÇÃO

P. 8-11



COMPONENTES E DIMENSÕES

P. 7



## DATOS TÉCNICOS

Antes de empezar la instalación, por favor garantizar que las condiciones siguientes están verificadas:

- Presión máxima soportada: 6 bar
- Caudal recomendado: 12,5L/min
- Caudal máximo: 25,0 L/min
- Temperatura máxima del agua: 60°C
- Altura mínima libre: 90 mm

## INDICACIONES PARA EL MONTAJE

Los recuperadores de calor Zylpho® S|im son vendidos como un conjunto completo. Por favor verificar si el contenido del embalaje esta completo antes de avanzar. Si falta algo, por favor consultar su proveedor y NO empiece el montaje.

Jamás debe cambiar los componentes enviados con el Zylpho®.

Antes de conectar el agua fría de la red, deberá instalarse una válvula de aislamiento y antirretorno (tipo EA).

Antes de conectar el agua precalentada, deberá instalarse una válvula de antirretorno (tipo EA).

Sugerimos la utilización de un grifo termostático.

EL NO CUMPLIMIENTO DE ESTAS RECOMENDACIONES DE INSTALACIÓN Y USO PUEDEN INVALIDAR NUESTRA GARANTIA.

## SEGURIDAD

Los recuperadores de calor Zylpho® S|im tiene pared doble, de acuerdo con la regulación europea EN 1717 ("protección contra la polución del agua potable en instalaciones sanitarias e de los requisitos generales de los equipamientos para prevenir polución"). Testamos todos los Zylpho® en fabrica antes de expedición. El circuito de agua interno es presurizado hasta 6 bar para garantizar que no hay defectos o fugas de agua.

## MANUTENCIÓN

Los recuperadores de calor Zylpho® S|im fueran concebidos para necesitar de una mantenimiento mínima. Tienen que ser instalados con la válvula que incorpora el sistema. Se recomienda una limpieza periódica para optimizar la eficiencia. Use un limpiador de cañerías no corrosivo o un jato de agua. Recomendamos nuestra escobilla jato de agua ZYMN00000J1.



OPCIONES DE CONFIGURACIÓN

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GUÍA DE INSTALACIÓN

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COMPONENTES Y DIMENSIONES

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## INFORMATIONS TECHNIQUES

Avant de poursuivre l'assemblage, veuillez confirmer si toutes les conditions sont vérifiées:

- Pression max. de l'eau prise en charge: 6 bar
- Débit de l'eau maximum: 12,5L/min
- Débit de l'eau recommandé: 25,0 L/min
- Température max. de l'eau: 60°C;
- Hauteur disponible minimum: 90mm

## INSTRUCTIONS POUR LE MONTAGE

Zypho® S|im Échangeurs de Chaleur sont fournis dans un emballage complet. Veuillez vérifier que le contenu de l'emballage est complet avant de poursuivre. Au cas où vous trouvez quelques anomalies, veuillez contacter votre fournisseur et ne pas procéder à l'assemblage. Vous ne devez jamais altérer ou modifier les composants fournis par Zypho®. Pour une installation plus adéquate, n'utilisez jamais que ces composants. Avant de connecter à l'eau froide, on doit installer une valve de sécurité et une soupape d'arrêt (type EA). Avant de connecter à l'eau préchauffée, on doit installer une valve de soupape d'arrêt (type EA). On suggère l'utilisation d'un robinet de douche thermostatique.

TOUTE GARANTIE POURRA ÊTRE ANNULÉE AU CAS OÙ L'ASSEMBLAGE ET L'UTILISATION NE SOIENT PAS D'ACCORD AVEC CES RECOMMANDATIONS.

## SECURITÉ

Zypho® S|im Échangeurs de Chaleur ont une paroi double, selon la réglementation Européenne EN 1717 ("Protection contre la pollution de l'eau potable dans les installations d'eau et exigences générales d'appareils pour prévenir la pollution").

Toutes les unités Zypho® sont testées dans nos usines avant d'être expédiées. Le circuit d'eau principal est pressurisé jusqu'à 6 bar afin d'assurer qu'il n'y aura aucune fuite ou défaut.

## MAINTENANCE

Les Zypho® S|im Heat Exchangers ont été conçus pour ne nécessiter qu'un minimum d'entretien. Ils devront être installés avec l'évacuation de la douche fournie. On recommande un nettoyage périodique afin d'optimiser l'échange d'énergie. Utilisez un produit de nettoyage non-corrosif ou un jet d'eau. Nous recommandons notre brosse de jet d'eau ZYMN0000J1.



OPTIONS DE CONFIGURATION D'INST

P. 6



GUIDE D'INSTALLATION

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COMPOSANTS ET DIMENSIONS

P. 7



## TECHNISCHE DATEN

Bevor Sie mit der Montage beginnen, stellen Sie bitte sicher, dass alle folgenden Bedingungen geprüft wurden

- Max. zulässiger Wasserdruck: 6 bar
- Empfohlene Durchflussmenge: 12,5L/min
- Maximale Durchflussmenge: 25,0 L/min
- Max. Wassertemperatur: 60°C;
- Min. Höhenfreiheit: 90mm

## MONTAGEHINWEISE

Zypho® S|im Wärmetauscher werden als komplettes Paket angeboten. Bitte überprüfen Sie den Inhalt des Pakets auf Vollständigkeit und Integrität, bevor Sie fortfahren. Sollten Abweichungen festgestellt werden, wenden Sie sich bitte an Ihren Lieferanten und beginnen Sie nicht mit der Montage.

Sie dürfen die von Zypho® gelieferten Komponenten niemals verändern oder modifizieren. Verwenden Sie bitte für eine ordnungsgemäße Installation ausschließlich diese Komponenten.

Vor dem Frischwasseranschluss sollten ein Rückschlagventil und ein Absperrventil eingebaut werden (Typ EA). Vor dem Anschluss für vorgewärmtes Wasser sollten ein Absperrventil eingebaut werden (Typ EA) Wir empfehlen die Verwendung eines thermostatischen Durchmischers.

BEI NICHTBEACHTUNG DIESER EMPFEHLUNGEN FÜR DIE INSTALLATION UND DEN GEBRAUCH KANN JEDE GEWÄHRLEISTUNG ERLÖSCHEN.

## SICHERHEIT

Zypho® S|im Wärmetauscher sind doppelwandig, entsprechend der europäischen Vorschrift EN 1717 ("Schutz des Trinkwassers vor Verunreinigungen in Trinkwasser-Installationen und allgemeine Anforderungen an Sicherungseinrichtungen zur Verhütung von Trinkwasser-Verunreinigungen durch Rückfließen").

Wir testen vor dem Versand alle Zypho®-Einheiten in unserem Werk. Der Hauptwasserkreislauf wird mit einem Druck von bis zu 6 bar beaufschlagt, um sicherzustellen, dass keine Leckagen oder Defekte auftreten.

## WARTUNG UND PFLEGE

Die Zypho® S|im Wärmetauscher wurden so konstruiert, dass sie nur minimalen Wartungsaufwand erfordern. Sie müssen mit dem vorgesehenen Duschabfluss installiert werden. Eine regelmäßige Reinigung wird empfohlen, um den Energieaustausch zu optimieren. Verwenden Sie einen nichtkorrosiven Abflussreiniger oder einen Wasserstrahl. Wir empfehlen unsere Wasserstrahlbürste ZYMN0000J1.



INSTALLATIONSKONFIGURATIONSOP

P. 6



INSTALLATIONSANLEITUNG

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KOMPONENTEN UND ABMESSUNGEN

P. 7



## DANE TECHNICZNE

Przed przystąpieniem do montażu należy upewnić się, że wszystkie poniższe warunki zostały zweryfikowane

- Maksymalne dopuszczalne ciśnienie wody: 6 barów
- Zalecana wielkość przepływu: 12,5L/min
- Maksymalna wielkość przepływu: 25,0 L/min
- Maksymalna temperatura wody: 60°C
- Minimalny przeswit na wysokości: 90mm

## INSTRUKCJE INSTALACJI

Wymienniki ciepła Zylho® S|im są dostarczane jako kompletny pakiet. Przed montażem proszę sprawdzić zawartość pakietu pod kątem kompletności i integralności. W przypadku zauważenia jakichkolwiek nieprawidłowości, należy skonsultować się z dostawcą i nie rozpoczynać montażu.

Nigdy nie wolno zmieniać ani modyfikować elementów dostarczanych przez firmę Zylho®. Do prawidłowego montażu należy używać wyłącznie tych elementów. Przed podłączeniem wody czystej należy zainstalować zawór zwrotny i zawór odcinający (typu EA). Przed podłączeniem podgrzanej wody należy zainstalować zawór odcinający (typu EA).

Zalecamy zastosowanie termostatycznej baterii

prysznicowej.

**NIEPRZESTRZEGANIE ZALECEN DOTYCZĄCYCH INSTALACJI I UŻYTKOWANIA MOŻE SPOWODOWAĆ UTRATĘ WSZELKICH GWARANCJI.**

## BEZPIECZENSTWO

Wymienniki ciepła Zylho® S|im są dwusenne, zgodnie z europejską normą EN 1717 ("Ochrona przed zanieczyszczeniami wody pitnej w instalacjach wodnych oraz ogólne wymagania dotyczące urządzeń zapobiegających zanieczyszczeniom"). Przed wysyłką testujemy wszystkie urządzenia Zylho® w naszej fabryce. Główny obieg wody jest pod ciśnieniem do 9 barów, aby upewnić się, że nie ma żadnych przecieków ani usterek.

## KONSERWACJA

Wymienniki ciepła Zylho® S|im zostały zaprojektowane tak, aby wymagały minimalnych nakładów na konserwację. Muszą być zainstalowane z dostarczonym odpływem prysznicowym. W celu optymalizacji wymiany energii zalecane jest okresowe czyszczenie. Należy używać niekorodującego środka czyszczącego do odpływu lub strumienia wody. Polecamy szczotkę wodną ZYM-N00000J1.



OPCJE KONFIGURACJI INSTALACJI

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INSTRUKCJA INSTALACJI

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KOMPONENTY I WYMIARY

P. 7



## TECHNISCHE DATA

Voordat u tot montage overgaat, dient u na te gaan of aan alle volgende voorwaarden is voldaan:

- Getolereerde max. waterdruk: 6 bar
- Aanbevolen stroomsnelheid: 12,5L/min
- Max. stroomsnelheid: 25,0 L/min
- Max. watertemperatuur: 60 °C
- Min. vrije hoogte: 90mm

## INSTALLATIE INSTRUCTIES

Zylho® S|im Warmtewisselaars worden als een compleet pakket geleverd. Controleer a.u.b. of de inhoud van de verpakking compleet en heel is, voordat u verdergaat. Raadpleeg in geval van afwijkingen uw leverancier en begin niet met het monteren.

U mag de door Zylho® geleverde onderdelen nooit veranderen of wijzigen. Gebruik voor een correcte installatie uitsluitend deze onderdelen.

Voordat u vers water aansluit, moeten er een terugslagklep en een afsluitklep (type EA) worden aangebracht.

Voordat u voorverwarmd water aansluit, moeten er een afsluitklep (type EA) worden aangebracht.

Wij suggereren een thermostaatkraan.

HET NIET OPVOLGEN VAN DEZE INSTALLATIE- EN GEBRUIKSAANBEVELINGEN KAN DE GARANTIE DOEN VERVALLEN.

## VEILIGHEID

Zylho® S|im Warmtewisselaars zijn dubbelwandig, overeenkomstig de Europese verordening EN 1717 ("Bescherming tegen verontreiniging van drinkwater in waterinstallaties en algemene eisen voor inrichtingen ter voorkoming van verontreiniging").

Al onze Zylho®-units worden voor verzending in onze fabriek getest. De druk van het hoofdwatercircuit wordt opgevoerd tot 6 bar om ervoor te zorgen dat er geen lekken of defecten zijn.

## ONDERHOUD

Zylho® S|im Heat Exchangers zijn ontworpen voor minimaal onderhoud. Ze moeten met de bijgeleverde doucheafvoer worden geïnstalleerd. Voor een optimale energie-uitwisseling is periodieke reiniging is aanbevolen. Gebruik een niet-corrosief afvoerreinigingsmiddel of een waterstraal. Wij raden waterstraalborstel ZYMN00000J1 aan.



INSTALLATIE CONFIGURATIE OPTIES

P. 6



INSTALLATIE GIDS

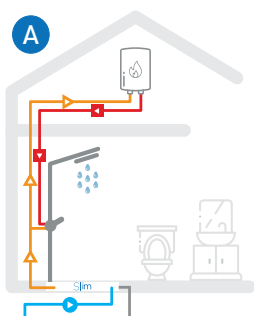
P. 8-11



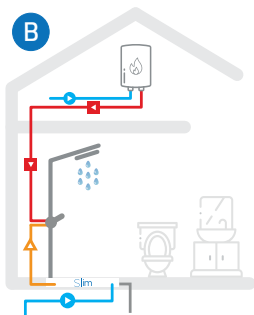
COMPONENTEN EN AFMETINGEN

P. 7

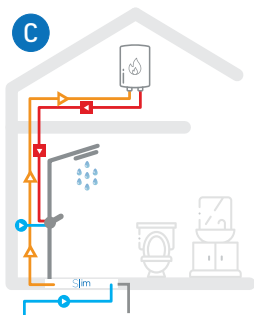
EN	Hot water	▼	Preheated water	▲	Cold water	▶
PT	Água quente		Água pré-aquecida		Água fria	
ES	Agua caliente		Agua precalentada		Agua fría	
FR	Eau chaude		Eau préchauffée		Eau froide	
DE	Heißes wasser		Vorgewärmtes wasser		Kaltes wasser	
PL	Gorąca woda		Woda podgrzewana		Zimna woda	
NL	Heet water		Voorverwarmd water		Koud water	



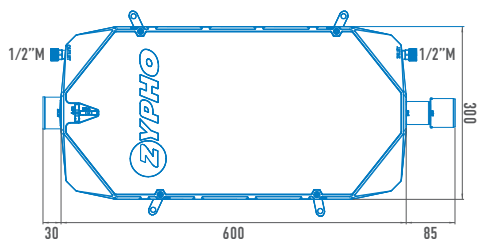
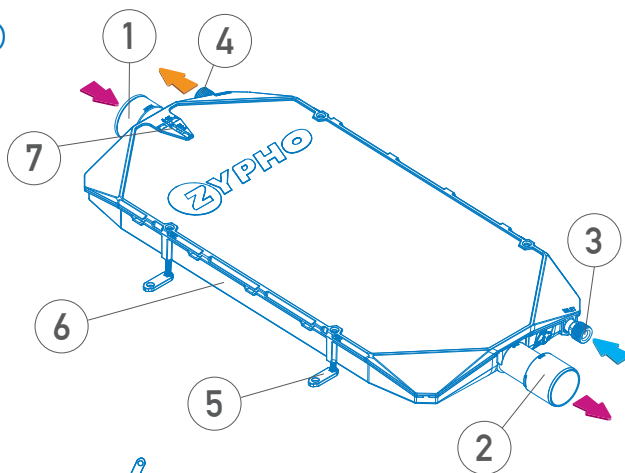
- EN** The preheated water is transferred to the tap and the boiler. The most efficient configuration.
- PT** A água pré aquecida é enviada para a torneira e para o termoacumulador/cilindro. A configuração mais eficiente.
- ES** El agua precalentada va para el grifo y para el calentador de agua. La configuración mas eficiente.
- FR** De L'eau préchauffée est ainsi dirigée vers le robinet mélangeur et le chauffe-eau.
- DE** Das vorgewärmte Wasser wird zum Wasserhahn und zum Boiler geleitet. Die effizienteste Konfiguration.
- PL** Podgrzana woda kierowana jest do kranu i bojlera. Najbardziej wydajna konfiguracja.
- NL** Het voorverwarmde water wordt naar de kraan en de boiler geleid. De meest efficiënte configuratie.



- EN** The preheated water is transferred to the tap only.
- PT** A água pré aquecida é enviada apenas para a torneira
- ES** El agua precalentada va sólo para el grifo
- FR** De L'eau préchauffée est dirigée vers le robinet mélangeur
- DE** Das vorgewärmte Wasser wird zum Wasserhahn geleitet.
- PL** Podgrzana woda jest przekazywana tylko do baterii.
- NL** Het voorverwarmde water wordt alleen naar de kraan geleid.



- EN** The preheated water is transferred to the boiler only.
- PT** A água pré aquecida é enviada apenas para o termoacumulador/ cilindro
- ES** El agua precalentada va sólo para el calentador de agua
- FR** De L'eau préchauffée est dirigée vers le chauffe-eau
- DE** Das vorgewärmte Wasser wird zum Kessel geleitet.
- PL** Podgrzana woda jest przekazywana tylko do kotła.
- NL** Het voorverwarmde water wordt alleen naar de boiler overgebracht.



$\Delta i$   
 5.8 L/min:  $i = 4\%$   
 9.2 L/min:  $i = 8\%$   
 12.5 L/min:  $i = 8\%$



- |                        |                                 |
|------------------------|---------------------------------|
| 1 Shower water in      | Rubber F40 mm                   |
| 2 Shower water out     | M40/M50                         |
| 3 Cold water in        | Gunmetal Input M1/2" Connector  |
| 4 Pre-heated water out | Gunmetal Output M1/2" Connector |
| 5 Adjustable feet      | 4                               |
| 6 Body                 | PP                              |



- |                         |                             |
|-------------------------|-----------------------------|
| 1 Entrada água do duche | Borracha F40 mm             |
| 2 Saída água do duche   | M40/M50                     |
| 3 Água fria             | Conetor entrada Bronze 1/2" |
| 4 Água pré-aquecida     | Conetor saída Bronze 1/2"   |
| 5 Pés ajustáveis        | 4                           |
| 6 Corpo                 | PP                          |



- |                            |                                  |
|----------------------------|----------------------------------|
| 1 Entrada de agua de ducha | Goma F40 mm                      |
| 2 Salida de agua de ducha  | M40/M50                          |
| 3 Agua fría                | Conector entrada en Bronze M1/2" |
| 4 Agua precalentada        | Conector salida en Bronze M1/2"  |
| 5 Pies ajustables          | 4                                |
| 6 Cuerpo                   | PP                               |



- |                          |                                      |
|--------------------------|--------------------------------------|
| 1 Entree d'eau de douche | Caoutchouc F40mm                     |
| 2 Sortie d'eau de douche | M40/M50                              |
| 3 Eau froide             | Connecteur d'entrée bronze M1/2"     |
| 4 Eau préchauffée        | Connecteur de sortie en bronze M1/2" |
| 5 Pieds réglables        | 4                                    |
| 6 Corps                  | PP                                   |



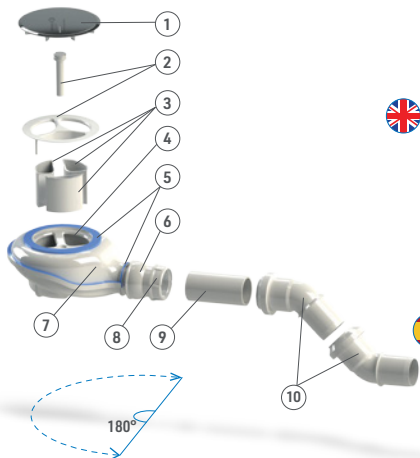
- |                       |                                 |
|-----------------------|---------------------------------|
| 1 Duschwassereinlass  | Gummi F40mm                     |
| 2 Duschwasser Ausgang | M40/M50                         |
| 3 Kaltes wasser       | Rotguss-Eingang M1/2"-Anschluss |
| 4 vorgewärmtes wasser | Rotguss-Ausgabe M1/2"-Anschluss |
| 5 Einstellbare Füße   | 4                               |
| 6 Körper              | PP                              |



- |                          |                                     |
|--------------------------|-------------------------------------|
| 1 wlot wody prysznicowej | Gumowa F40 mm                       |
| 2 Wylot wody z prysznicu | M40/M50                             |
| 3 Zimna woda             | Złącze wejściowe rewolwerowego M1/2 |
| 4 Woda podgrzewana       | Złącze wyjściowe rewolwerowego M1/2 |
| 5 Regulowane nóżki       | 4                                   |
| 6 Korpus                 | PP                                  |



- |                      |                                       |
|----------------------|---------------------------------------|
| 1 Douchewater in     | Rubberen F40 mm                       |
| 2 Douche water uit   | M40/M50                               |
| 3 Koud water         | Geschutbronzen M1/2" inlaatconnector  |
| 4 Voorverwarmd water | Geschutbronzen M1/2" uitlaatconnector |
| 5 Verstelbare voeten | 4                                     |
| 6 Behuizing          | PP                                    |



- 1 - Standard 90 ABS chromed cover
- 2 - PA (polyamide) highly reinforced fiberglass
- 3 - PP high performance triple filter
- 4 - Brush free entry access for cleaning
- 5 - Thermoplastic elastomer (TPE)
- 6 - ABS rotative fitting
- 7 - PP drain siphon EN 274 50 mm water seal
- 8 - PP threaded fitting
- 9 - PVC D40 connection pipe
- 10 - PVC D40 45° Elbow



- 1 - Embellecedor cromado estándar 90 ABS
- 2 - Fibra de vidrio altamente reforzada PA (poliamida)
- 3 - Filtro PP triple de alto rendimiento
- 4 - Acceso libre para cepillo de limpieza
- 5 - Elastómero termoplástico (TPE)
- 6 - Accesorio rotativo ABS
- 7 - Sifón PP con Sello EN 274 50mm
- 8 - Conexión roscado PP
- 9 - Tubo conexión PVC D40
- 10 - Codo PVC D40 45°



- 1 - Tampa cromada 90 em ABS
- 2 - Fibra de vidro reforço extra
- 3 - Filtro triplo PP alto desempenho
- 4 - Acesso livre para escova de limpeza
- 5 - Elastómero termoplástico
- 6 - Conexão rotativa em ABS
- 7 - Sifão PP com vedação EN 274 50mm
- 8 - Conexão roscada PP
- 9 - Tubo conexão PVC D40
- 10 - Curva PVC D40 45°

- 1 - Couvercle chromé ABS standard 90
- 2 - Fibre de verre PA (polyamide) hautement renforcée
- 3 - Filtre triple PP d'haute performance
- 4 - Accès pour le brossse de nettoyage
- 5 - Elastomère thermoplastique (TPE)
- 6 - Raccord rotatif ABS
- 7 - Joint d'eau de 50mm du siphon de vidange en PP EN 274
- 8 - Raccord fileté en PP
- 9 - Tuyau de raccordement en PVC D40
- 10 - Coude 45° en PVC D40

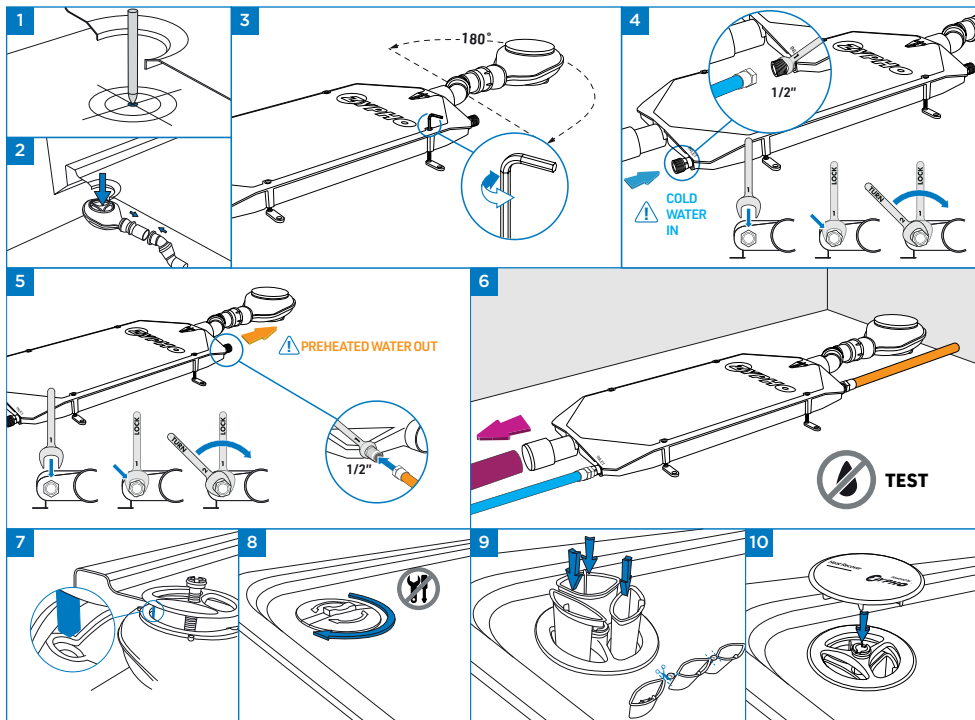
- 1 - Standard 90 ABS verchromte Abdeckung
- 2 - Hochverstärkte PA (Polyamid) Glasfaser3
- 3 - PP-Hochleistungs-Dreifachfilter
- 4 - Bürstenfreier Zugang für die Reinigung
- 5 - Thermoplastisches Elastomer (TPE)
- 6 - ABS-Drehanschluss
- 7 - PP-Abfluss-Siphon EN 274 50 mm Wasserdichtung
- 8 - PP-Gewindeanschluss
- 9 - PVC D40 Verbindungsrohr
- 10 - PVC D40 45°-Winkel



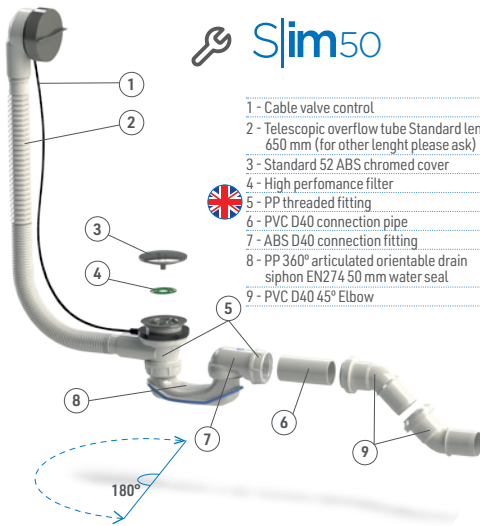
- 1 - Pokrywa chromowana ABS Standardowa 90
- 2 - PA (poliamid) wzmocniony włóknem szklanym
- 3 - PP wysokowydajny filtr potrójny
- 4 - Otwór rewizyjny
- 5 - Elastomer termoplastyczny (TPE)
- 6 - Złącze obrotowe ABS
- 7 - Sifon odpływowy PP EN 274 50 mm wodoszczelny
- 8 - Złącze gwintowane PP
- 9 - Rura połączeniowa PVC D40
- 10 - Kolanko PVC D40 45°



- 1 - Standaard 90 ABS verchromde afdekplaat
- 2 - PA (polyamide) hoogversterkte glasvezel
- 3 - PP driedubbele oogrendementsfilter
- 4 - Borstelvrije toegang voor reiniging
- 5 - Thermoplastisch elastomeer (TPE)
- 6 - ABS draaiende wartel
- 7 - PP afvoersifon EN 274 50 mm waterslot
- 8 - PP wartelmoer
- 9 - PVC D40 Verbindingsbuis
- 10 - PVC D40 45° Elleboog



# Slim50



- 1 - Cable valve control
- 2 - Telescopic overflow tube Standard length: 650 mm (for other length please ask)
- 3 - Standard 52 ABS chromed cover
- 4 - High performance filter
- 5 - PP threaded fitting
- 6 - PVC D40 connection pipe
- 7 - ABS D40 connection fitting
- 8 - PP 360° articulated orientable drain siphon EN274 50 mm water seal
- 9 - PVC D40 45° Elbow

- 1 - Cabo controle de válvula
- 2 - Tubo overflow telescópico 650mm (possibilidade de outros comprimentos)
- 3 - Tampa cromada 52 em ABS
- 4 - Filtro de alto desempenho
- 5 - Conexão roscada PP
- 6 - Tubo conexão PVC D40
- 7 - Conetor ABS D40
- 8 - Sifão 360° articulado orientável em PP com vedação EN 274 50mm
- 9 - Curva PVC D40 45°

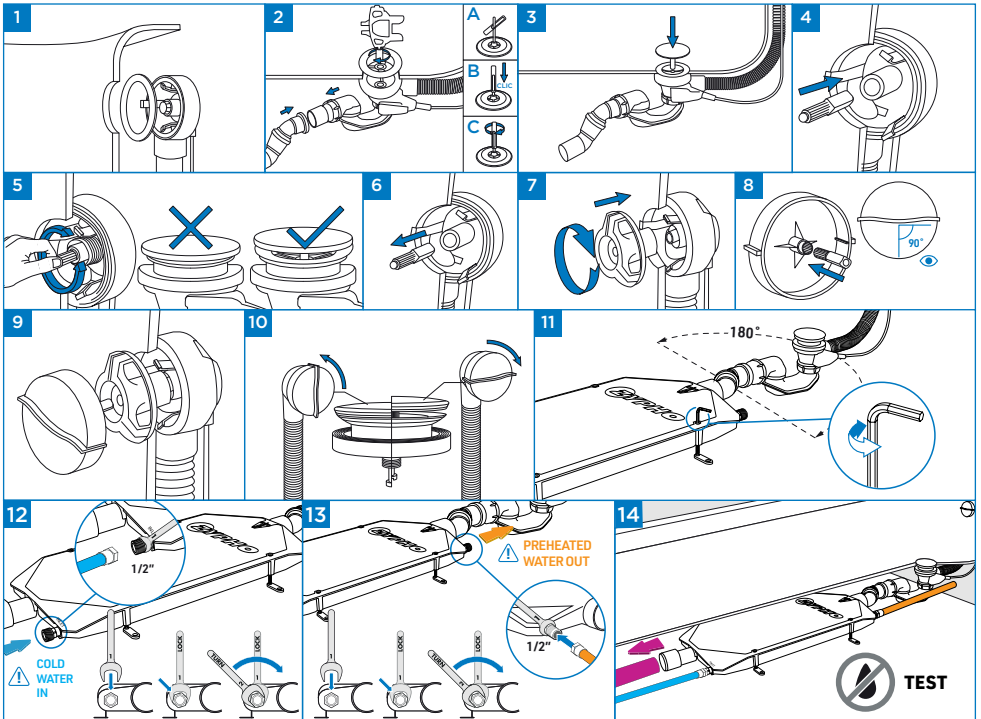
- 1 - Cable de control de válvula
- 2 - Tubo de rebose telescópico 650 mm (posibilidad de otras medidas)
- 3 - Cubierta cromada estándar 52 ABS
- 4 - Filtro de alto rendimiento
- 5 - Conexión roscado PP
- 7 - Conexión PVC D40
- 7 - Conexión ABS D40
- 8 - Sifón 360° articulado orientable en PP con Sello EN 274 50mm
- 9 - Codo PVC D40 45°

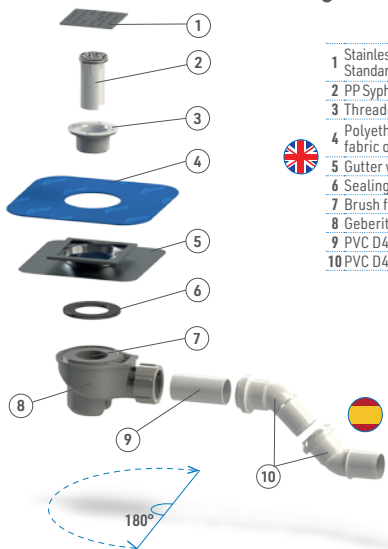
- 1 - Commande par câble de la valve
- 2 - Tube de débordement télescopique Longueur standard: 650 mm (pour d'autres longueurs, veuillez demander)
- 3 - Couverture standard chromé ABS 52
- 4 - Filtre d'haute performance
- 5 - Raccord fileté en PP
- 6 - Tuyau de raccordement en PVC D40
- 7 - Accessoire de connexion ABS D40
- 8 - Siphon de vidange articulé PP 360° en joint étanche EN274 50 mm
- 9 - Coude 45° en PVC D40

- 1 - Kabel-Ventilsteuerung
- 2 - Teleskopisches Überlaufrohr Standardlänge: 650 mm (für andere Längen bitte anfragen)
- 3 - Standard 52 ABS verchromte Abdeckung
- 4 - Hochleistungsfähiger Filter
- 5 - PP-Gewindeanschluss
- 6 - PVC D40 Verbindungsrohr
- 7 - ABS D40-Anschlussstück
- 8 - PP 360° schwenkbarer, ausrichtbarer Ablaufsiphon EN274 50 mm Wasserdichtung
- 9 - PVC D40 45°-Winkel

- 1 - Sterowanie zaworem kablowym
- 2 - Teleskopowa rura przelewowa Długość standardowa: 650 mm (dla innych długości proszę pytać)
- 3 - Pokrywa chromowana ABS Standardowa 90
- 4 - Filtr wysokowydajny
- 5 - Złącze gwintowane PP
- 6 - Rura połączeniowa PVC D40
- 7 - Osprzęt przyłączeniowy ABS D40
- 8 - Wpust podłogowy zaszyfonowany 360° PP EN274 50 mm wodoszczelny
- 9 - Kolanko PVC D40 45°

- 1 - Ventielcontrol d.m.v. kabel
- 2 - Telescopische overloopbuis Standaardlengte: 650 mm (raadpleeg ons voor andere lengtes)
- 3 - Standaard 52 ABS verchroomde afdekplaat
- 4 - Hoogrendementsfilter
- 5 - PP wartelmoer
- 6 - PVC D40 Verbindingsbuis
- 7 - ABS D40 aansluitstuk
- 8 - PP 360° gelede, orienteerbare afvoersifon EN274 50 mm waterlot
- 9 - PVC D40 45° Elleboog





- 1 Stainless steel cover with top high performance filter  
Standard length: 100x100 mm (for other length please ask)
- 2 PP Siphon tube with stainless steel filter incorporate
- 3 Threaded ring
- 4 Polyethylene film coated with a special non-woven fabric on both sides sealing membrane
- 5 Gutter with an insulating collar
- 6 Sealing ring
- 7 Brush free entry access for cleaning
- 8 Geberit drain siphon EN 274 50 mm water seal
- 9 PVC D40 connection pipe
- 10 PVC D40 45° Elbow



- 1 Tapa de acero inoxidable con filtro lateral  
de alto rendimiento, longitud estándar:  
100x100mm (posibilidad de otras medidas)
- 2 Tubo de sifón PP con filtro de acero inoxidable  
incorporado
- 3 Anillo roscado
- 4 Membrana de sello en película de  
polietileno ecubierta con una tela  
especial no tejida en ambos lados
- 5 Canal con aletas
- 6 Anillo de sello
- 7 Acceso libre para cepillo de limpieza
- 8 Sifón Geberit EN 274 con 50mm sello de agua
- 9 Tubo conexión PVC D40
- 10 Codo PVC D40 45°



- 1 Tampa Inox com filtro lateral de alto  
desempenho, medidas standard:  
100x100mm (possibilidade de outras medidas)
- 2 Tubo sifão PP com filtro inox incorporado
- 3 Anel roscado
- 4 Membrana de vedação em polietileno revestido de  
tecido não tecido especial em ambos os lados
- 5 Calha com abas
- 6 Anel de vedação
- 7 Acesso livre para escova de limpeza
- 8 Sifão Geberit EN 274 com 50mm guarda de água
- 9 Tubo conexão PVC D40
- 10 Curva PVC D40 45°



- 1 Edelstahldeckel mit seitlichem  
Hochleistungsfilter Standardlänge: 100x100  
mm (für andere Längen bitte anfragen)
- 1 Hochleistungsfilter Standardlänge: 100x100  
mm (für andere Längen bitte anfragen)
- 2 PP-Siphonrohr mit integriertem Edelstahlfilter
- 3 Gewindering
- 4 Beidseitig mit einem speziellen Vliesstoff  
beschichteter Polyäthylenfilm
- 5 Dachrinne mit Isolierkragen izolacyjny
- 6 Dichtungsring
- 7 Bürstenfreier Zugang für die Reinigung
- 8 Geberit-Abfluss-Siphon EN 274 50 mm  
Wasserdichtung
- 9 PVC D40 Verbindungsrohr
- 10 PVC D40 45°-Winkel

Couvercle en acier inoxydable avec filtre latéral d'haute performance, dimension standard: 100x100mm (pour d'autres longueurs, veuillez demander)

- 1 Couvercle en acier inoxydable avec filtre latéral d'haute performance, dimension standard: 100x100mm (pour d'autres longueurs, veuillez demander)
- 2 Tube siphon en PP avec filtre en acier inoxydable incorporé
- 3 Bague filetée
- 4 Film en polyéthylène enduit d'un tissu spécial non tissé sur les deux faces de la membrane d'étanchéité
- 5 Gouttière avec un col isolant Isolierkragen
- 6 Bague d'étanchéité
- 7 Accès pour le brosse de nettoyage
- 8 Joint d'eau 50 mm avec un siphon de vidange Geberit EN 274
- 9 Tuyau de raccordement en PVC D40
- 10 Coude 45° en PVC D40



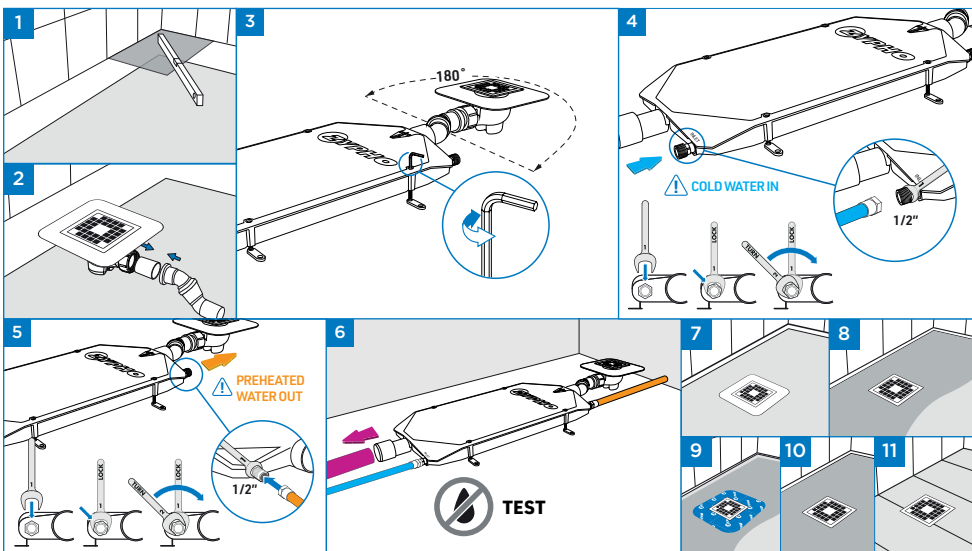
Pokrywa ze stali nierdzewnej z bocznym filtrem 1 wysokowydajnym Długość standardowa: 100x100 mm (w przypadku innych długości proszę pytać)

- 1 Pokrywa ze stali nierdzewnej z bocznym filtrem 1 wysokowydajnym Długość standardowa: 100x100 mm (w przypadku innych długości proszę pytać)
- 2 Rura syfonowa PP z wbudowanym filtrem ze stali nierdzewnej
- 3 Pierścień gwintowany
- 4 Folia polietylenowa pokryta obustronnie specjalną włókninową membraną uszczelniającą
- 5 Rynna z kołnierzem izolacyjnym
- 6 Pierścień uszczelniający
- 7 Otwór rewizyjny
- 8 Syfon odpływowy Geberit EN 274 50 mm wodoszczelny
- 9 Rura połączeniowa PVC D40
- 10 Kolanko PVC D40 45°

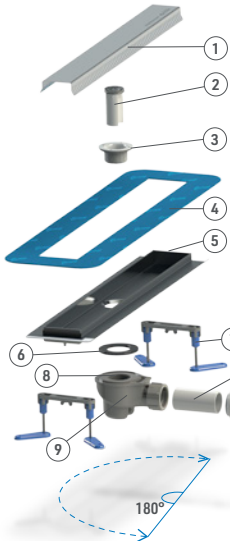


Roestvrijstalen afdekplaat met zijdelingse 1 hoogrendementsfilter Standaardlengte: 100x100mm (raadpleeg ons voor andere lengtes)

- 1 Roestvrijstalen afdekplaat met zijdelingse 1 hoogrendementsfilter Standaardlengte: 100x100mm (raadpleeg ons voor andere lengtes)
- 2 PP Sifonbuis met ingebouwde roestvrijstalen filter
- 3 Schroefdraadring
- 4 Dichtingsmembran van polyetheenfolie, 4 aan beide kanten gecoat met een speciale niet-geweven stof
- 5 Goot met een isolerende kraag
- 6 Dichtingsring
- 7 Borstelvrije toegang voor reiniging
- 8 Geberit afvoersifon EN 274 50 mm waterstol
- 9 PVC D40 Verbindingsbuis
- 10 PVC D40 45° Elleboog







- Stainless steel cover with side high performance
- 1 filter Standard length: 700/800/900 mm (for other length please ask)
  - 2 PP Syphon tube with stainless steel filter incorporate
  - 3 Threaded ring
  - 4 Polyethylene film coated with a special non-woven fabric on both sides sealing membrane
  - 5 Gutter with an insulating collar
  - 6 Sealing ring
  - 7 PP and PC feet for height adjustment and levelling
  - 8 Brush free entry access for cleaning
  - 9 Geberit drain siphon EN 274 50 mm water seal
  - 10 PVC D40 connection pipe



- Tapas de acero inoxidable con filtro lateral de alto rendimiento, longitud estándar: 700/800/900 mm (posibilidad de otras medidas)
- 1 Tubo de sifón PP con filtro de acero inoxidable incorporado
  - 2 Anillo roscado
  - 3 Membrana de sello en película de polietileno ecubierta con una tela especial no tejida en ambos lados
  - 4 Canal con aletas
  - 5 Anillo de sello
  - 6 Pies de PP y PC para ajuste de altura y nivelación
  - 8 Acceso libre para cepillo de limpieza
  - 9 Sifón Geberit EN 274 con 50mm sello de agua
  - 10 Tubo conexión PVC D40



- Tampa Inox com filtro lateral de alto desempenho, 1 medidas standard: 700/800/900mm (possibilidade de outras medidas)
- 2 Tubo sifão PP com filtro inox incorporado
  - 3 Anel roscado
  - 4 Membrana de vedação em polietileno revestido de tecido não tecido especial em ambos os lados
  - 5 Calha com abas
  - 6 Anel de vedação
  - 7 Pés em PP e PC para ajuste e nivelamento da altura
  - 8 Acesso livre para escova de limpeza
  - 9 Sifão Geberit EN 274 com 50mm guarda de água
  - 10 Tubo conexão PVC D40

- Couvercle en acier inoxydable avec filtre latéral d'haute performance, dimension standard: 700/800/900 mm (pour d'autres longueurs, veuillez demander)
- 2 Tube siphon en PP avec filtre en acier inoxydable incorporé
  - 3 Bague filetée
  - 4 Film en polyéthylène enduit d'un tissu spécial non tissé sur les deux faces de la membrane d'étanchéité
  - 5 Gouttière avec un col isolant Isolierkragen
  - 6 Bague d'étanchéité
  - 7 Pieds en PP et PC pour le réglage et le nivellement de la hauteur
  - 8 Accès pour le brosse de nettoyage
  - 9 Joint d'eau 50 mm avec un siphon de vidange Geberit EN 274
  - 10 Tuyau de raccordement en PVC D40

Edelstahldeckel mit seitlichem Hochleistungs-  
1 filter Standardlänge: 700/800/900 mm  
(für andere Längen bitte anfragen)

- 2 PP-Siphonrohr mit integriertem Edelstahlfilter
- 3 Gewindingring
- 4 Beidseitig mit einem speziellen Vliesstoff beschichteter Polyäthylenfilm
- 5 Dachrinne mit Isolierkragen isolacyjnym
- 6 Dichtungsring
- 7 PP- und PC-Füße für Höheneinstellung und Nivellierung
- 8 Bürstenfreier Zugang für die Reinigung
- 9 Geberit-Abfluss-Siphon EN 274 50 mm Wasserdichtung
- 10 PVC D40 Verbindungsrohr



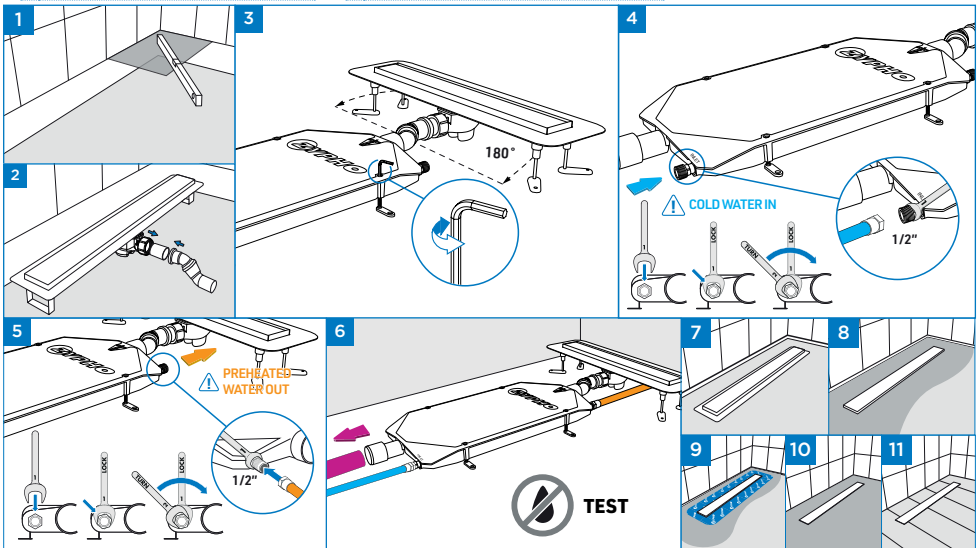
Pokrywa ze stali nierdzewnej z bocznym filtrem  
1 wysokowydajnym Długość standardowa: 700/800/  
900 mm (w przypadku innych długości proszę pytać)

- 2 Rura syfonowa PP z wbudowanym filtrem ze stali nierdzewnej
- 3 Pierścień gwintowany
- 4 Folia polietylenowa pokryta obustronnie specjalną włókninową membraną uszczelniającą
- 5 Rynna z kotnikiem izolacyjnym
- 6 Pierścień uszczelniający
- 7 Nóżki z PP i PC do regulacji wysokości i poziomowania
- 8 Otwór rewizyjny
- 9 Syfon odpływowy Geberit EN 274 50 mm wodoszczelny
- 10 Rura połączeniowa PVC D40



Roestvrijstalen afdekplaat met zijdelingse  
1 hoogrendementsfilter Standaardlengte: 700/800/  
900 mm (raadpleeg ons voor andere lengtes)

- 2 PP Sifonbuis met ingebouwde roestvrijstalen filter
- 3 Schroefdraadring
- 4 Dichtingsmembran van polyethyleenfolie, aan beide kanten gecoat met een speciale niet-geweven stof
- 5 Goot met een isolerende kraag
- 6 Dichtingsring
- 7 PP en PC voeten voor hoogteverstelling en nivellering
- 8 Borstelvrije toegang voor reiniging
- 9 Geberit afvoersifon EN 274 50 mm waterslot
- 10 PVC D40 Verbindingsbuis





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 aliaxis

IMPORTANT  
IMPORTANTE  
WICHTIG  
WAŻNY  
BELANGRIJK



-  INSTALLATION MANUAL
-  MANUAL DE INSTALAÇÃO
-  MANUAL DE INSTALACIÓN
-  INSTALLATION MANUEL
-  INSTALLATIONSANLEITUNG
-  INSTRUKCJA INSTALACJI
-  INSTALLATIEHANDLEIDING



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PiPeDW  
55|60|65

ZYPI55GDTP00 | ZYPI60GDTP00ZYPI65GDTP00



## TECHNICAL DATA

Before proceeding to assembly, please make sure all the following conditions are verified

- Max. mains water pressure endured : 6 bar;
- Recommended flow rate: <12,5 L/min;
- Maximum flow rate: 25,0 L/min;
- Max. water temperature: 60°C
- Min. height clearance: PiPe height +400mm.

## INSTALLATION INSTRUCTIONS

Please check the content of the package for completeness and integrity before proceeding. Should any deviations be noted, please consult your supplier and do not start the assembly. You must never alter or modify the provided components by ZypHo®. For a proper installation, please use these components only.

It is recommended that the PiPe is installed in a location where all parts of the unit are accessible and routine maintenance such as cleaning can be carried out with reasonable ease. PiPe should be mounted vertically both from frontside as from the side.

It is essential to install a trap downstream of the ZypHo. As such, there is no need to install another trap under the shower tray as installing two traps could lead to flow / noise issues in certain instances.

Before the freshwater connection a non-return valve and a shut-off valve should be installed.

Do not thermally insulate the PiPe. It is required that the distance from the shower to the PiPe is kept to within 3 meters to reduce any heat losses and ensure good efficiency is maintained.

We recommend the use of a thermostatic shower mixer. Failure to PiPe INSTALLATION CONFIGURATION OPTIONS will invalidate the guarantee and may have an adverse effect on its efficiency. NON-COMPLIANCE WITH THESE RECOMMENDATIONS FOR INSTALLATION AND USE MAY VOID ANY WARRANTY.

## SAFETY

We test all ZypHo® units in our factory before shipping. The main water circuit is pressurized up to 9 bar to ensure that there are no leaks or defects.

## MAINTENANCE

ZypHo® PiPe Heat Exchangers have been designed to require minimal maintenance efforts. Periodic cleaning is recommended to optimise energy exchange. Use a non-corrosive drain cleaner or a water jet. We recommend water jet brush ZYMN00000J1.



INSTALLATION CONFIGURATION OPTIONS

P. 6



ONLY FOR UK INSTALLATION

COMPONENTS AND DIMENSIONS

P. 7



INSTALLATION GUIDE

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## UK IMPORTANT REMARKS

### INSTALLATION

The preheated water supply inline of the ZYPHO PiPe must be insulated in accordance with the requirements of the 'Building Services Compliance Guide'. Pipework between the WWHRs preheated water outlet and the water heater and /or shower cold water inlet(s) (depending on installation configuration) must be labelled to indicate that no other services can be interconnected.

It is essential that a trap is installed downstream of the ZYPHO PiPe and that NO trap is installed directly underneath the shower.

System A: Installation configuration 1

System B: Installation configuration 2

System C: Installation configuration 3

Energy Saving Performance Recognised by SAP

The successful operation of the ZYPHO PiPe which is a Waste Water Heat Recovery System (WWHRs) – Instantaneous

Shower Heat Recovery Device, depends entirely upon the adherence to these instructions. Additionally, for new-build dwellings within the UK, recognition of the system's energy saving performance within the National Calculation Methodology (NCM) for the energy rating of dwellings, known as the Standard Assessment Procedure (SAP) requires that these instructions are complied with in conjunction with a system design checklist and an installation checklist and certificate of installation,

supplied with this document and available at:

[www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap).

The system should be installed by a suitably qualified plumber, with system design consideration being equally important to a correct installation.

For recognition of the ZYPHO PiPe within SAP, a system design checklist and an installation checklist and certificate of installation should be completed and signed, with copies kept for the home user pack (home owner), the installer, and sent to ZYPHO at the post or e-mail address shown below.

Building Control Officers may also request a copy. For the purpose of system identification of product data without SAP, the product will have an NCM (SAP) Identifier label permanently fixed to the unit, whereby the 'model qualifier' states 'refer to installation certificate, if unknown assume System B'. A second NCM (SAP) Identifier label is also supplied and must be affixed to a nearby boiler or service cupboard (the label must be visible for inspection without disassembly of nearby products or systems) and the 'model qualifier' states 'System A, System B or System C delete as appropriate'.

Not sending back the completed and signed system design checklist, the installation checklist and certificate of installation to ZYPHO will invalidate the guarantee.

Address: Tower Plaza I, Via Eng. Edgar Cardoso 23, 5º H  
4400-676 Vila Nova de Gaia, PORTUGAL  
E-mail: b2b@alixis.com



## DADOS TÉCNICOS

Antes de proceder à instalação, por favor certifique-se que todas as condições seguintes se verificam:

- Pressão da água máxima: 6 bar
- Caudal recomendado: <12.5 L/min;
- Caudal máximo: 25.0 L/min;
- Temperatura da água máxima: 60°C;
- Altura mínima necessária: Altura do PiPe +400mm.

## AVISOS DE MONTAGEM

Por favor, verifique se todas as peças se encontram na embalagem. Caso haja alguma anomalia, consulte o seu fornecedor e não inicie a montagem.

Nunca deverá alterar ou modificar qualquer dos componentes fornecidos pela Zylpho®. Para uma instalação correta, use apenas estes componentes.

Recomenda-se que o PiPe seja instalado num local onde todas as partes da unidade sejam acessíveis e que a manutenção de rotina, como a limpeza, possa ser realizada com razoável facilidade. O PiPe deverá ser instalado na vertical de ambos os lados. Antes da ligação de entrada da água fria da rede, deverá ser instalada uma válvula de seccionamento e de antirretorno (tipo EA).

Não isole termicamente o PiPe.

É necessário que a distância da base do chuveiro ao PiPe não seja superior a 3 metros para reduzir as perdas de

calor e garantir uma boa eficiência.

Sugerimos a utilização de torneira de duche termostática.

A não conformidade com as OPÇÕES DE CONFIGURAÇÃO DA INSTALAÇÃO invalidará a garantia e poderá ter um efeito adverso na sua eficiência.

A NÃO CONFORMIDADE COM ESTAS RECOMENDAÇÕES DE INSTALAÇÃO E USO PODE ANULAR QUALQUER GARANTIA.

## SEGURANÇA

Todos os Zylpho® são testados na nossa fábrica antes da sua expedição. O circuito de água principal é pressurizado até 9 bar para garantir que não há fugas ou defeitos.

## MANUTENÇÃO

Os Recuperadores de Calor Zylpho® PiPe foram desenhados de forma a requerer esforços de manutenção mínimos. Devem ser instalados com a válvula fornecida. Recomenda-se uma limpeza periódica para otimizar a eficiência.

Use um desentupidor de canos não corrosivo ou um jato de água. Recomendamos a escova de jato de água ZYMN00000J1.



OPÇÕES DE CONFIGURAÇÃO DE INSTALAÇÃO

P. 6



APENAS PARA INSTALAÇÃO NO REINO UNIDO



COMPONENTES E DIMENSÕES

P. 7



GUÍA DE INSTALAÇÃO

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## DATOS TÉCNICOS

Antes de empezar la instalación, por favor garantizar que las condiciones siguientes están verificadas

- Presión máxima soportada: 6 bar;
- Caudal recomendado: <12.5L/min
- Caudal máximo: 25.0L/min
- Temperatura máxima del agua : 60°C;
- Altura mínima libre: Altura de lo PiPe + 40mm.

## INDICACIONES PARA EL MONTAJE

Por favor verificar si el contenido del embalaje esta completo antes de avanzar. Si falta algo, por favor consultar su proveedor y NO empiece el montaje.

Jamás debe cambiar los componentes enviados con el Zylpho®.

Recomendamos que el PiPe sea instalado de forma a que todas las partes estén accesibles para posibles rutinas de mantenimiento, como limpieza, de forma simple. PiPe debe montarse verticalmente tanto desde el lado frontal como lateral.

Antes de conectar el agua fría de la red, deberá instalarse una válvula de aislamiento y antirretorno (tipo EA).

No aisle térmicamente el PiPe.

La distancia desde el plato de ducha al PiPe debe mantenerse dentro de los 3 metros para reducir las pérdidas de

calor y garantizar una buena eficiencia.

Sugerimos la utilización de un grifo termostático.

El incumplimiento de las OPCIONES DE CONFIGURACIÓN DE INSTALACIÓN del PiPe invalidará la garantía y puede tener un efecto adverso sobre su eficiencia.

EL NO CUMPLIMIENTO DE ESTAS RECOMENDACIONES DE INSTALACIÓN Y USO PUEDEN INVALIDAR NUESTRA GARANTIA.

## SEGURIDAD

Testamos todos los Zylpho® en fabrica antes de expedición. El circuito de agua interno es presurizado hasta 9 bar para garantizar que no hay defectos o fugas de agua.

## MANUTENCIÓN

Los recuperadores de calor Zylpho® PiPe fueran concebidos para necesitar de una mantenimiento mínima. Tienen que ser instalados con la válvula que incorpora el sistema. Se recomienda una limpieza periodica para optimizar la eficiencia. Use un limpiador de cañerías no corrosivo o un jato de agua. Recomendamos escobilla jato de agua ZYMN00000J1.



OPCIONES DE CONFIGURACIÓN

P. 6



SOLO PARA LA INSTALACIÓN EN EL REINO UNIDO



COMPONENTES Y DIMENSIONES

P. 7



GUÍA DE INSTALACIÓN

P. 8, 9



## INFORMATIONS TECHNIQUES

Avant de poursuivre l'assemblage, veuillez confirmer si toutes les conditions sont vérifiées:

- Pression max. de l'eau prise en charge: 6 bar;
- Débit de l'eau recommandé: <12,5 L/min ;
- Débit de l'eau maximum: 25,0 L/min;
- Température max. de l'eau: 60°C;
- Hauteur disponible min.: Hauteur du PiPe + 40mm.

## INSTRUCTIONS POUR LE MONTAGE

Veuillez vérifier que le contenu de l'emballage est complet avant de poursuivre. Au cas où vous trouverez quelques anomalies, veuillez contacter votre fournisseur et ne pas procéder à l'assemblage.

Vous ne devez jamais altérer ou modifier les composants fournis par Zypho®. Pour une installation plus adéquate, n'utilisez jamais que ces composants.

On recommande que le PiPe soit installé dans un endroit où toutes les parties de l'unité soient accessibles et que la maintenance de routine, tel que le nettoyage, puisse être réalisé avec une facilité raisonnable.

Le PiPe devra être monté verticalement soit sur le front soit sur le côté.

Avant de connecter à l'eau froide, on doit installer une valve de sécurité et une soupape d'arrêt (type EA).

Ne pas isoler thermiquement le PiPe.

Il faut que la distance de la base de la douche au PiPe ne soit pas supérieure à 3 m afin de réduire les pertes de

chaleur et de garantir une bonne efficacité.

On suggère l'utilisation d'un robinet de douche thermostatique.

Au cas où il y a des non-conformités avec les OPTIONS DE CONFIGURATION DE L'INSTALLATION, la garantie ne sera pas valable et pourra avoir un effet contraire dans son efficacité

TOUTE GARANTIE POURRA ÊTRE ANNULÉE AU CAS OÙ L'ASSEMBLAGE ET L'UTILISATION NE SOIENT PAS D'ACCORD AVEC CES RECOMMANDATIONS.

## SECURITE

Toutes les unités Zypho® sont testées dans nos usines avant d'être expédiées. Le circuit d'eau principal est pressurisé jusqu'à 9 bar afin d'assurer qu'il n'y aura aucune fuite ou défaut.

## ENTRETIEN

Les Zypho® PiPe Heat Exchangers ont été conçus pour ne nécessiter qu'un minimum d'entretien. Ils devront être installés avec l'évacuation de la douche fournie.

On recommande un nettoyage périodique afin d'optimiser l'échange d'énergie. Utilisez un produit de nettoyage non-corrosif ou un jet d'eau. Nous recommandons brosse de jet d'eau ZYMN0000J1.



OPTIONS DE CONFIGURATION D'INST

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JUSTE POUR L'INSTALLATION AU ROYAUME-UNI



COMPOSANTS ET DIMENSIONS

P. 7



GUIDE D'INSTALLATION

P. 8, 9



## TECHNISCHE DATEN

Bevor Sie mit der Montage beginnen, stellen Sie bitte sicher, dass alle folgenden Bedingungen geprüft wurden

- Max. zulässiger Wasserdruck: 6 bar;
- Empfohlene Durchflussmenge: <12,5 L/min;
- Maximale Durchflussmenge: 25,0 L/min;
- Max. Wassertemperatur: 60°C;
- Min. Freiraum in der Höhe: PiPe Größe + 40 mm.

## MONTAGEHINWEISE

Bitte überprüfen Sie den Inhalt des Pakets auf Vollständigkeit und Integrität, bevor Sie fortfahren. Sollten Abweichungen festgestellt werden, wenden Sie sich bitte an Ihren Lieferanten und beginnen Sie nicht mit der Montage.

Sie dürfen die von Zypho® gelieferten Komponenten niemals verändern oder modifizieren. Verwenden Sie bitte für eine ordnungsgemäße Installation ausschließlich diese Komponenten.

Es wird empfohlen, PiPe an einer Stelle Ort zu installieren, an der alle Teile der Einheit zugänglich sind und routinemäßige Wartungsarbeiten, wie z.B. Reinigung, mit angemessener Leichtigkeit durchgeführt werden können.

PiPe sollte vertikal sowohl von der Vorderseite als auch von der Seite montiert werden. Vor dem Frischwasseranschluss sollten ein Rückschlagventil und ein Absperrventil eingebaut werden (Typ EA). PiPe darf nicht thermisch isoliert werden.

Es ist erforderlich, dass der Abstand von der Dusche zum PiPe

innerhalb von 3 Metern gehalten wird, um Wärmeverluste zu reduzieren und einen guten Wirkungsgrad zu gewährleisten.

Wir empfehlen die Verwendung eines thermostatischen Duschmischers.

Die Nichtbeachtung der INSTALLATIONSKONFIGURATIONSOPTIONEN von PiPe führt zum Erlöschen der Garantie und kann sich negativ auf die Wirksamkeit auswirken.

BEI NICHTBEACHTUNG DIESER EMPFEHLUNGEN FÜR DIE INSTALLATION UND DEN GEBRAUCH KANN JEDE GEWÄHRLEISTUNG ERLÖSCHEN.

## SICHERHEIT

Wir testen vor dem Versand alle Zypho®-Einheiten in unserem Werk. Der Hauptwasserkreislauf wird mit einem Druck von bis zu 9 bar beaufschlagt, um sicherzustellen, dass keine Leckagen oder Defekte auftreten.

## WARTUNG UND PFLEGE

Die Zypho® PiPe Wärmetauscher wurden so konstruiert, dass sie nur minimalen Wartungsaufwand erfordern. Sie müssen mit dem vorgesehenen Duschabfluss installiert werden. Eine regelmäßige Reinigung wird empfohlen, um den Energieaustausch zu optimieren. Verwenden Sie einen nichtkorrosiven Abflussreiniger oder einen Wasserstrahl. Wir empfehlen Wasserstrahl, Abflussreiniger mit der Referenz ZYMN0000J1.



INSTALLATIONSKONFIGURATIONSOPT

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NUR FÜR DIE INSTALLATION IN GROSSBRITANNIEN



KOMPONENTEN UND ABMESSUNGEN

P. 7



INSTALLATIONSANLEITUNG

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## DANE TECHNICZNE

Przed przystąpieniem do montażu należy upewnić się, że wszystkie poniższe warunki zostały

- Zweryfikowane Maks. dopuszczalne ciśnienie wody w sieci: 6 barów;
- Zalecane natężenie przepływu: <12,5 l/min;
- Maksymalne natężenie przepływu: 25,0 l/min;
- Maksymalna temperatura wody: 60°C;
- Min. wysokość przeswitu: Wysokość PiPe + 40mm.

## INSTRUKCJE INSTALACJI

Przed montażem proszę sprawdzić zawartość pakietu pod kątem kompletności i integralności. W przypadku zauważenia jakichkolwiek nieprawidłowości, należy skonsultować się z dostawcą i nie rozpoczynać montażu. Nigdy nie wolno zmieniać ani modyfikować elementów dostarczanych przez firmę Zynpho®.

Do prawidłowego montażu należy używać wyłącznie tych elementów.

Zaleca się, aby PiPe był instalowany w miejscu, w którym wszystkie części urządzenia są dostępne, a rutynowa konserwacja, taka jak czyszczenie, może być przeprowadzana z łatwością.

PiPe powinna być montowana pionowo zarówno od przodu, jak i z boku. Przed podłączeniem wody czystej należy zainstalować zawór zwrotny i zawór odcinający (typu EA). Nie należy izolować termicznie PiPe. Wymagane jest, aby odległość od prysznica do PiPe była nie większa

niz 3 metry, aby zmniejszyć straty ciepła i zapewnić dobrą wydajność.

Zalecamy zastosowanie termostatycznej baterii prysznicowej.

Niezastosowanie się do OPCJI KONFIGURACJI INSTALACJI PiPe unieważnia gwarancję i może mieć negatywny wpływ na jej wydajność.

NIEPRZESTRZEGANIE ZALECEN DOTYCZĄCYCH INSTALACJI I UŻYTKOWANIA MOŻE SPOWODOWAĆ UTRATĘ WSZELKICH GWARANCJI.

## BEZPIECZENSTWO

Przed wysyłką testujemy wszystkie urządzenia Zynpho® w naszej fabryce.

Główny obieg wody jest pod ciśnieniem do 9 barów, aby upewnić się, że nie ma żadnych przecieków ani usterek.

## KONSERWACJA

Wymienniki ciepła Zynpho® PiPe zostały zaprojektowane tak, aby wymagały minimalnych nakładów na konserwację. Muszą być zainstalowane z dostarczoną opdytym prysznicowym. W celu optymalizacji wymiany energii zalecane jest okresowe czyszczenie.

Należy używać niekorodującego środka czyszczącego do opdytu lub strumienia wody. Polecamy szczotkę wodną ZYMN00000J1.



OPCJE KONFIGURACJI INSTALACJI

P. 6



TYLKO DO INSTALACJI W WIELKIEJ BRYTANII



KOMPONENTY I WYMIARY

P. 7



INSTRUKCJA INSTALACJI

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## TECHNISCHE DATA

Voordat u tot montage overgaat, dient u na te gaan of aan alle volgende voorwaarden is voldaan

- Getolereerde max. waterdruk: 6 bar;
- Aanbevolen stroomsnelheid: < 12,5 L/min;
- Max. stroomsnelheid: 25,0 L/min;
- Max. watertemperatuur: 60 °C;
- Min. vrije hoogte: PiPe hoogte + 40 mm.

## INSTALLATIE INSTRUCTIES

Controleer a.u.b. of de inhoud van de verpakking compleet en heel is, voordat u verdergaat. Raadpleeg in geval van afwijkingen uw leverancier en begin niet met het monteren. U mag de door Zynpho® geleverde onderdelen nooit veranderen of wijzigen. Gebruik voor een correcte installatie uitsluitend deze onderdelen.

Het wordt aanbevolen om de PiPe te installeren op een plek waar alle onderdelen van de unit toegankelijk zijn en routinematig onderhoud, zoals reiniging, redelijk gemakkelijk kan worden gepleegd. De PiPe moet zowel aan de voorals aan de zijkant verticaal worden gemonteerd. Voordat u vers water aansluit, moeten er een terugslagklep en een afsluitklep (type EA) worden aangebracht. isoleer de PiPe niet thermisch.

De afstand van de douchebak tot de PiPe mag niet groter

zijn dan 3 meter om warmteverlies te verminderen en een optimale efficiëntie te waarborgen. Wij suggereren een thermostaatkraan.

Het niet-naleven van de INSTALLATIECONFIGURATIE-MOGELIJKHEDEN maakt de garantie ongeldig en kan een nadelige invloed op de efficiëntie hebben.

HET NIET OPVOLGEN VAN DEZE INSTALLATIE- EN GEBRUIKSAANBEVELINGEN KAN DE GARANTIE DOEN VERVALLEN.

## VEILIGHEID

Al onze Zynpho® units worden voor verzending in onze fabriek getest.

De druk van het hoofdwatercircuit wordt opgevoerd tot 9 bar om ervoor te zorgen dat er geen lekken of defecten zijn.

## ONDERHOUD

Zynpho® PiPe Heat Exchangers zijn ontworpen voor minimaal onderhoud. Ze moeten met de bijgeleverde doucheafvoer worden geïnstalleerd. Voor een optimale energie-uitwisseling is periodieke reiniging is aanbevolen. Gebruik een niet-corrosief afvoerreinigingsmiddel of een waterstraal. Wij raden waterstraalborstel ZYMN00000J1 aan.



INSTALLATIE CONFIGURATIE OPTIES

P. 6



ALLEEN VOOR INSTALLATIE IN HET VK






COMPONENTEN EN AFMETINGEN

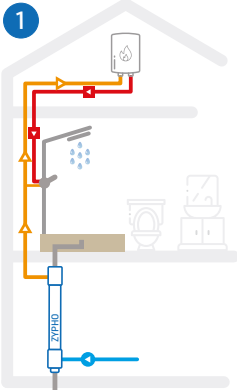
P. 7



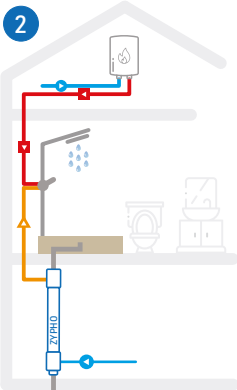
INSTALLATIE GIDS

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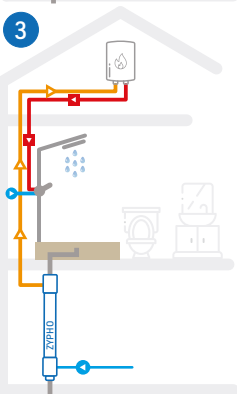
EN	Hot water		Preheated water		Cold water	
PT	Água quente		Água pré-aquecida		Água fria	
ES	Agua caliente		Agua precalentada		Agua fria	
FR	Eau chaude		Eau préchauffée		Eau froide	
DE	Heißes wasser		Vorgewärmtes wasser		Kaltes wasser	
PL	Gorąca woda		Woda podgrzewana		Zimna woda	
NL	Heet water		Voorverwarmd water		Koud water	



- EN** The preheated water is transferred to the tap and the boiler.  
The most efficient configuration.
- PT** A água pré aquecida é enviada para a torneira e para o termoacumulador/ cilindro. A configuração mais eficiente.
- ES** El agua precalentada va para el grifo y para el calentador de agua.  
La configuración mas eficiente.
- FR** De L'eau préchauffée est ainsi dirigée vers le mitigeur et le chauffe-eau.
- DE** Das vorgewärmte Wasser wird nur zum Wasserhahn geleitet.
- PL** Podgrzana woda jest przekazywana tylko do baterii.
- NL** Het voorverwarmde water wordt alleen naar de kraan overgebracht.



- EN** The preheated water is transferred to the tap only.
- PT** A água pré aquecida é enviada apenas para a torneira
- ES** El agua precalentada va sólo para el grifo
- FR** De L'eau préchauffée est dirigée vers le mitigeur
- DE** Das vorgewärmte Wasser wird nur zum Wasserhahn geleitet.
- PL** Podgrzana woda jest przekazywana tylko do baterii.
- NL** Het voorverwarmde water wordt alleen naar de kraan overgebracht.

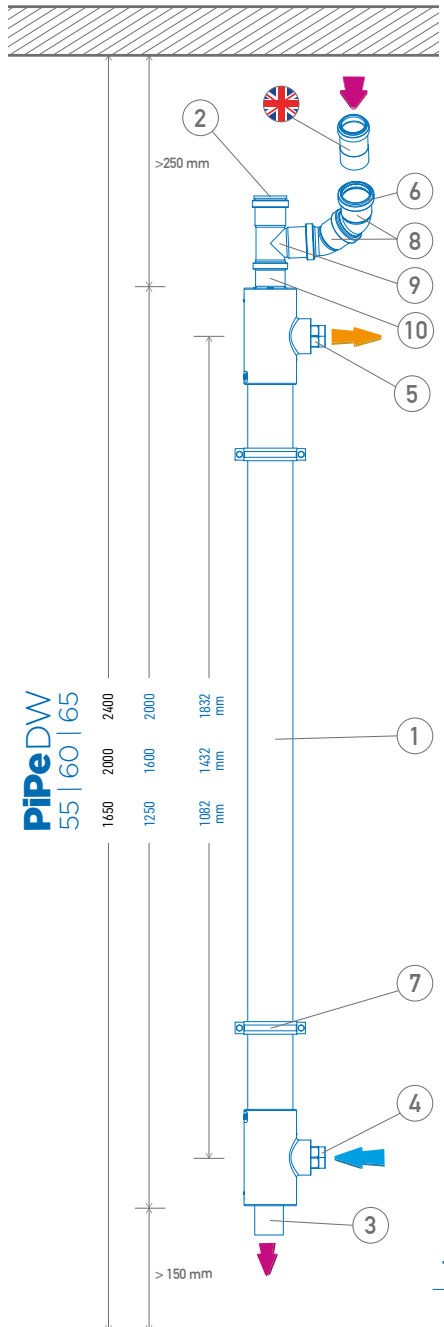


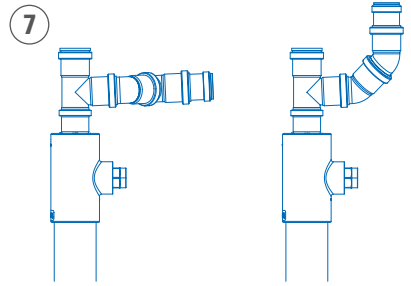
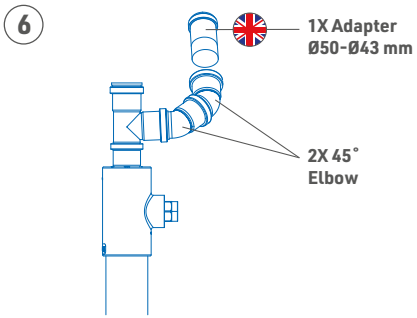
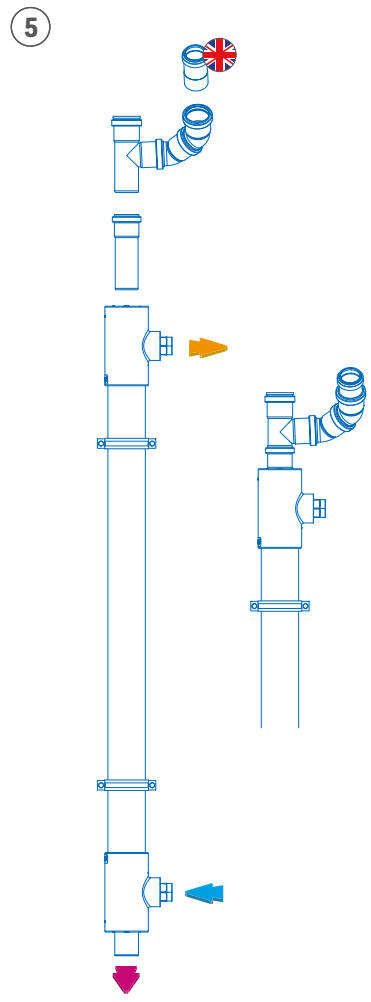
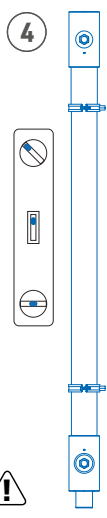
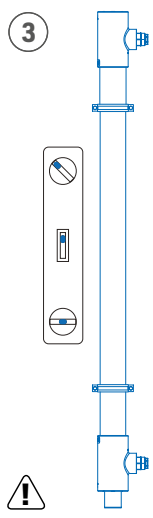
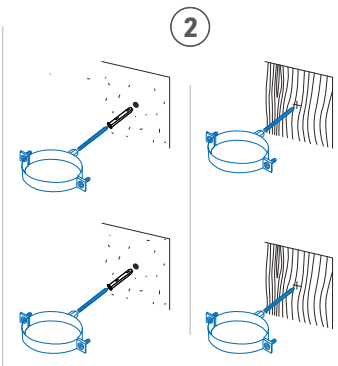
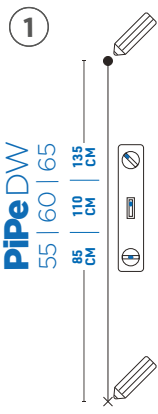
- EN** The preheated water is transferred to the boiler only.
- PT** A água pré aquecida é enviada apenas para o termoacumulador/ cilindro
- ES** El agua precalentada va sólo para el calentador de agua
- FR** El agua precalentada va sólo para el calentador de agua
- DE** Das vorgewärmte Wasser wird nur zum Kessel geleitet.
- PL** Podgrzana woda jest przekazywana tylko do kotła.
- NL** Het voorverwarmde water wordt alleen naar de boiler overgebracht.



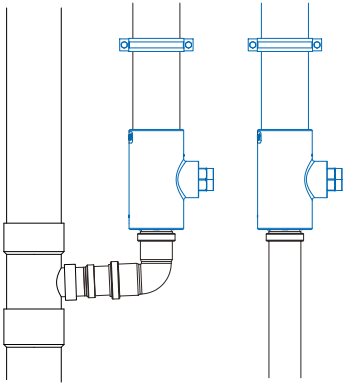
		MAT	COD	DIMEN	
1	EN	Product body		Stainless steel	
	PT	Corpo do produto		Aço inoxidável	
	ES	Cuerpo del producto		Acero inoxidable	
	FR	Corps du produit		Acier inoxydable	
	DE	Produkt-körper		Edelstahl	
PL	Korpus produktu		Stal nierdzewna		
NL	Productbehuizing		Roestvrij staal		
2	EN	Cleaning access			
	PT	Acesso de limpeza			
	ES	Accés au nettoyage	PVC	F	Ø50 mm
	FR	Acceso de limpieza			
	DE	Zugang reinigen			
PL	Czyszczak				
NL	Reinigingsstoegang				
3	EN	Shower water out			
	PT	Saída água do duche			
	ES	Salida de agua de ducha	PVC	M	Ø50 mm
	FR	Sortie d'eau de douche			
	DE	Duschwasserausgang			
PL	Wylot wody z prysznicy				
NL	Douche water uit				
4	EN	Cold water in			
	PT	Água fria			
	ES	Agua fría	PVC/BRASS	F	3/4" 1/2"
	FR	Eau froide			
	DE	Kaltes Wasser			
PL	Zimna woda				
NL	Koud water				
5	EN	Pre-heated water out			
	PT	Água pré-aquecida			
	ES	Agua precalentada	PVC/BRASS	F	3/4" 1/2"
	FR	Eau préchauffée			
	DE	vorgewärmtes Wasser			
PL	Woda podgrzewana				
NL	Voorverwarmd water				
6	EN	Shower water in			
	PT	Entrada água do duche			
	ES	Entrada de agua de ducha	PVC	-	-
	FR	Entree d'eau de douche			
	DE	Duschwassereinlass			
PL	wlot wody prysznicowej				
NL	Douchewater In				
7	EN	Fixing clamp			
	PT	Abraçadeira de fixação			
	ES	Abrazadera de fijación	Metal / Rubber		
	FR	Pince de fixation	Metal / Borracha		
	DE	Befestigungsklemme	Metal / caucho		
PL	Uchwyt mocujący	Métal / Caoutchouc			
NL	Bevestigingskle	Metal / Gummi			
				Metaal / Rubber	
8	EN	45° Elbow			
	PT	Curva 45°			
	ES	Codo 45°	PVC	M/F	Ø50 mm
	FR	Coude 45°			
	DE	45° Winkel			
PL	Kolanko 45°				
NL	Bocht 45°				
9	EN	90° Tee			
	PT	T 90°			
	ES	T 90°	PVC	M/F	Ø50 mm
	FR	T 90°			
	DE	90° T-Stück			
PL	Koszulka 90°				
NL	90° T-stuk				
10	EN	Leak detector			
	PT	Detector de fugas			
	ES	Detector de fugas	PVC	M/F	Ø50 mm
	FR	Détecteur de fuite			
	DE	Lecksucher			
PL	Wykrywacz nieszczelności				
NL	Lek detector				
UK	EN	Adapter			
	PT	Adaptador			
	ES	Adaptador	PVC	M/F	Ø50 mm Ø43 mm
	FR	Adaptateur			
	DE	Adapter			
PL	Adapter				
NL	Adapter				

↙ ↗ **PiPeDW**  
55|60|65



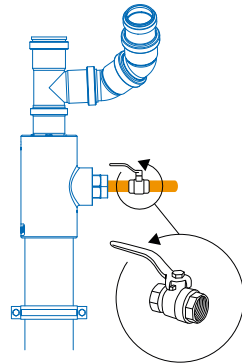


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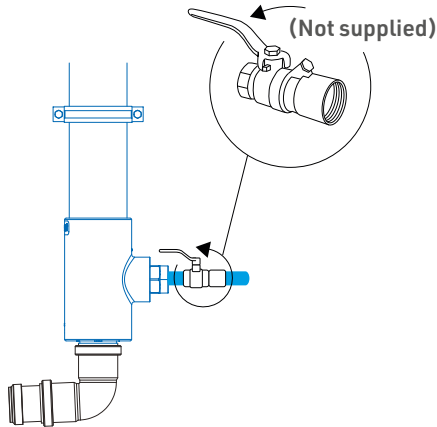
9

Shut-off valve



10

Shut-off valve & Non-return valve type EA



11



**TEST**



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