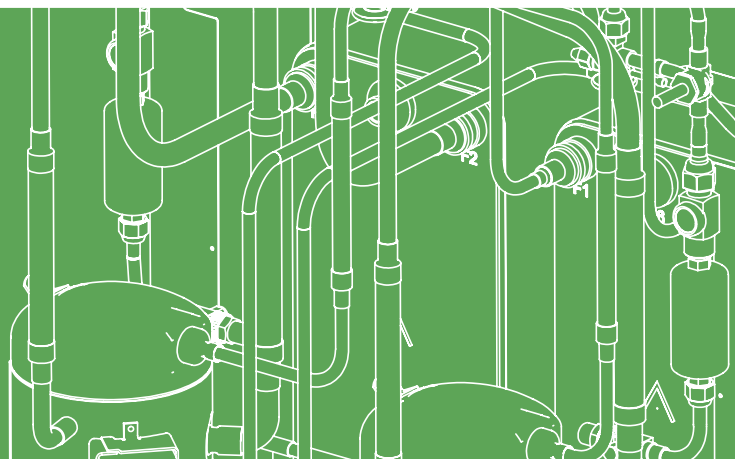




*BW 08 Block*



Small size heat pump brine - water

**Small size heat pump brine - water**

Small size compact heat pump in modular stable frame unit. Available in combination with DHW boiler tank or buffer tank of 200 liter. Double high-absorption suspension with sylomer pads and adjustable feet base plates ensure low noise and vibration levels of the hermetic SCROLL compressor.

Stainless steel plate heat exchanger (1.4401) for heating circuit. Stainless plate plate heat exchanger (1.4401) for source circuit. Electrical switchboard with integrated safety elements and equithermal controller of the heat pump is located under the upper lid. With electronic starter via built-in soft starter and electronic expansion valve control with autoadaptivity.

Frame construction with a massive base plate on adjustable legs. Covering the epoxy-coated unit. The multi-layer sound insulation and vibration-eliminating profiles are glued from the inside of the cover. Equithermal, digital control of the heat pump with integrated cooling control function (passive cooling). For controlling one heating circuit with mixing unit, for one heating circuit without a mixing unit. Using the cooling function (passive cooling) and the cooling circuit with mixing unit. Temperature regulation for DHW storage tank and control of electrical auxiliary heating. Simple extension of control up to 3 heating / cooling circuits via expansion modules or up to 16 circuits via system controllers. The standard version also includes solar control.

Full-text control menu with features dependent on user instructions, information texts and status output signal. Diagnostic system with record history of operation. External temperature sensor, hotgas sensor, liquid refrigerant temperature sensor, heat pump flow and return temperature sensor as well as source output sensor, source return sensor, and hot water sensor.

Build-in condenser pump, backup heating element of 6 kW as well as 3 way switching valve for DHW preparation in packaging.

Possibility to integrate with 200 liter DHW tank or buffer tank. Optionally available with ModBus module as well WebControl control and monitoring via the Internet.

## Technical information - heat pump

Type :	BW 08 Block	latest data update :	2017-11-23 15:22:00
Article code :	WA001073	Language :	English

## Nominal performance data according to EN 14511

Heating capacity :	7.66 kW	Input :	1.63 kW
Refrigerating capacity :	6.03 kW	COP :	4.7

\* Data at conditions B0°C/W35°C

## Operating temperature limitations

Source temperature minimal :	-5°C	Flow temperature minimal :	+20°C
Source temperature maximal :	+25°C	Flow temperature maximal :	+60°C

## Mechanical data

Width :	600 mm	Weight inside :	105 kg
Depth :	580 mm		
Height :	630 mm		

## Noise emissions

Noise emissions inside Lp ( 1m ) :	35 dB(A)
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## Refrigerant circle parameters

Refrigerant :	R410a	Orifice inside :	EEV
Refrigerant volume :	0.9 kg		

## Pipe dimensions, flow rates , pressure drops

Connecting dimensions - primary side :	1 "	Pressure drop - primary side :	max 12 kPa
Connecting dimensions - secondary side :	1 "	Pressure drop - secondary side :	max 12 kPa
Flow - primary side :	1.84 m <sup>3</sup> /hour	Recommended ΔT source :	3 K
Flow - secondary side :	1.33 m <sup>3</sup> /hour	Recommended ΔT consumer :	5 K

## Electrical parameters

Main connection cable - dimension :	5x4 mm <sup>2</sup>	Current - nominal :	3.26 A
Primary side cable - dimension :	n.a mm <sup>2</sup>	Current - maximal :	6.20 A
Voltage :	3 x 400 V	Softstart :	MCI 12
Fuze :	20 A	Starting current :	8.80 A

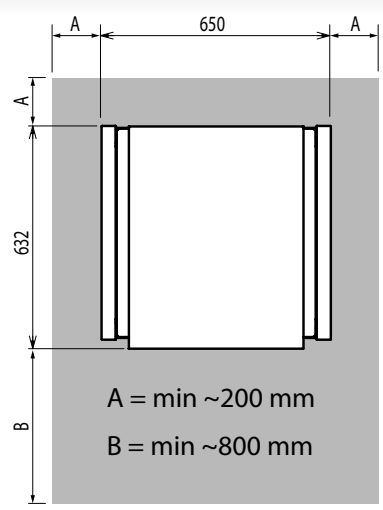
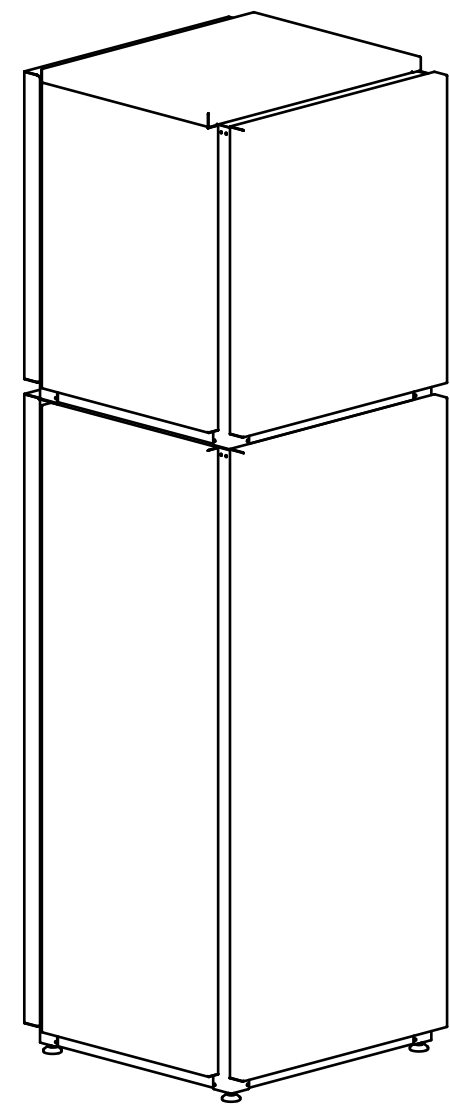
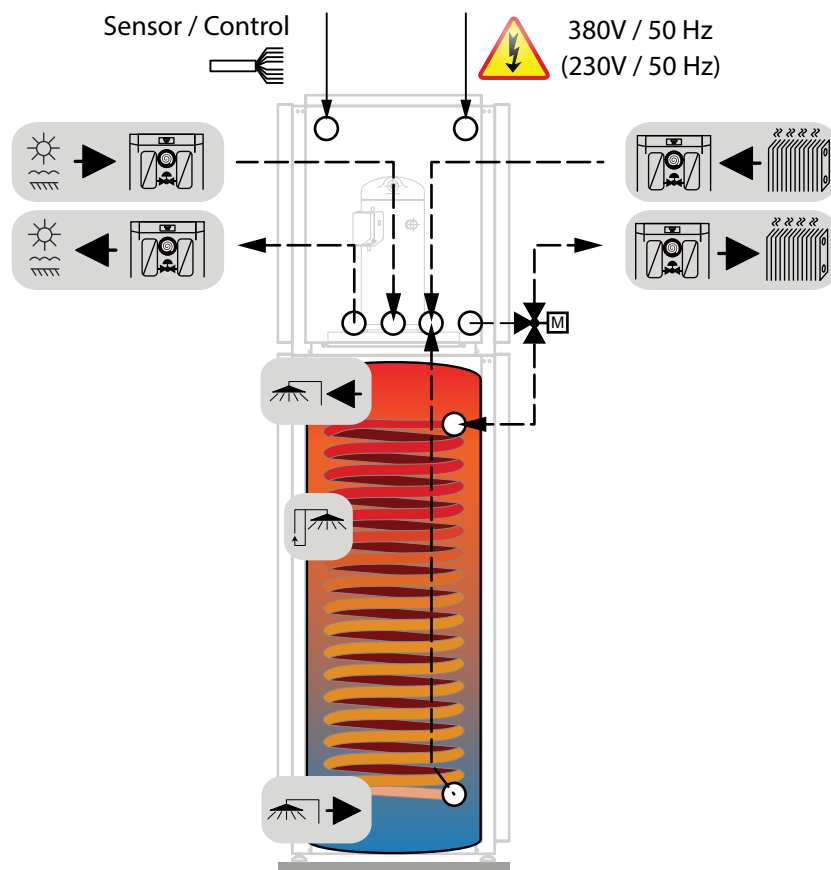
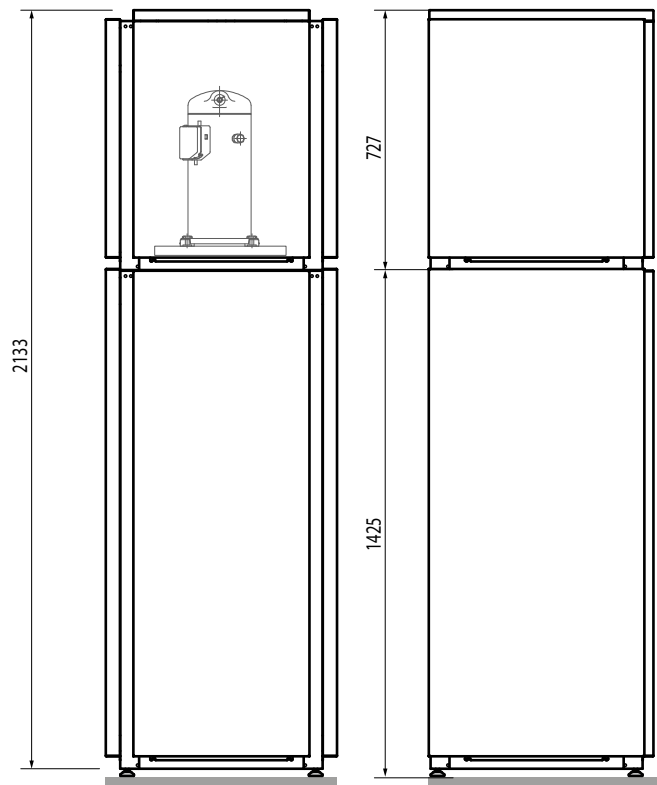
## Features

Condenser circulator installed :	Yes	Installed HP controller :	SIEMENS RVS 21
Source circulator installed :	Yes	Control of mixed heating circuit :	Yes
Bivalent heater installed :	6 kW	Control of direct pump heating circuit :	Yes
Three way switching valve in delivery :	Yes	Active cooling :	optional

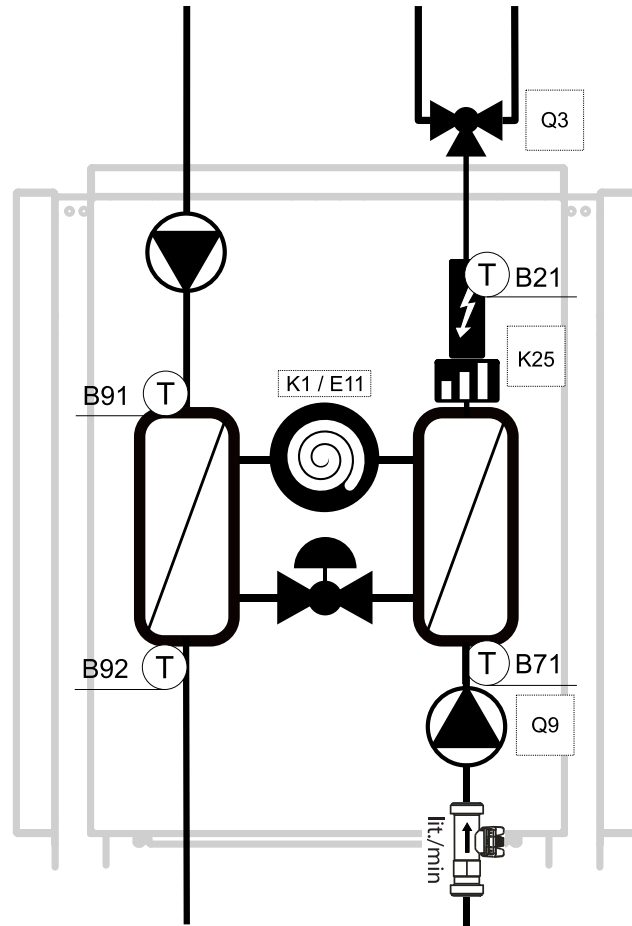
ModBus :	with extension module	Solar system control :	Yes
WebControl :	with WebServer-Module		

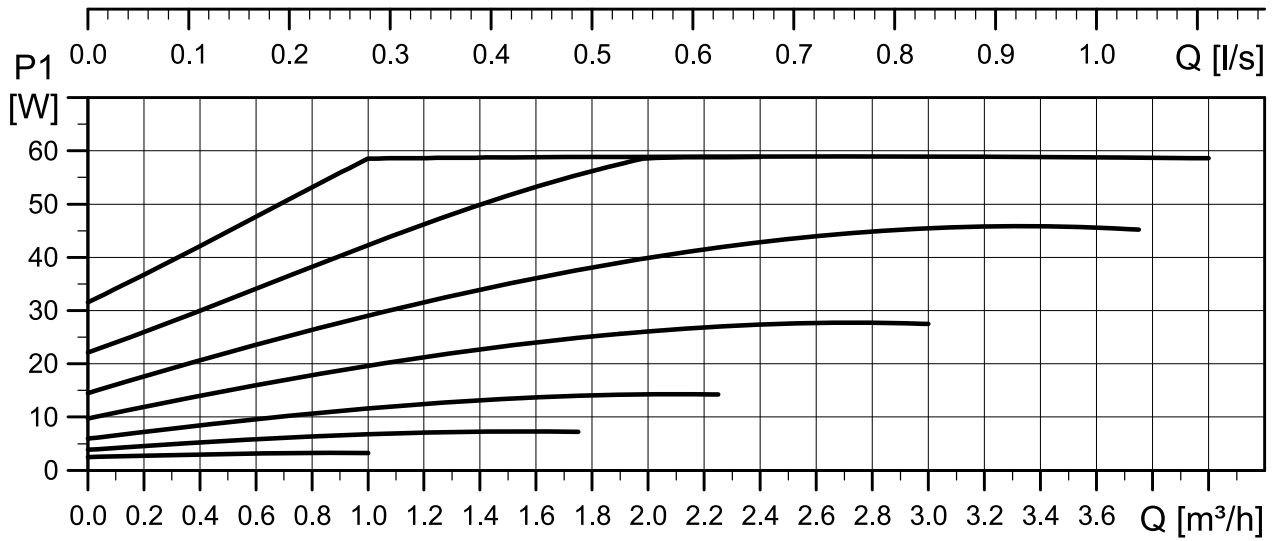
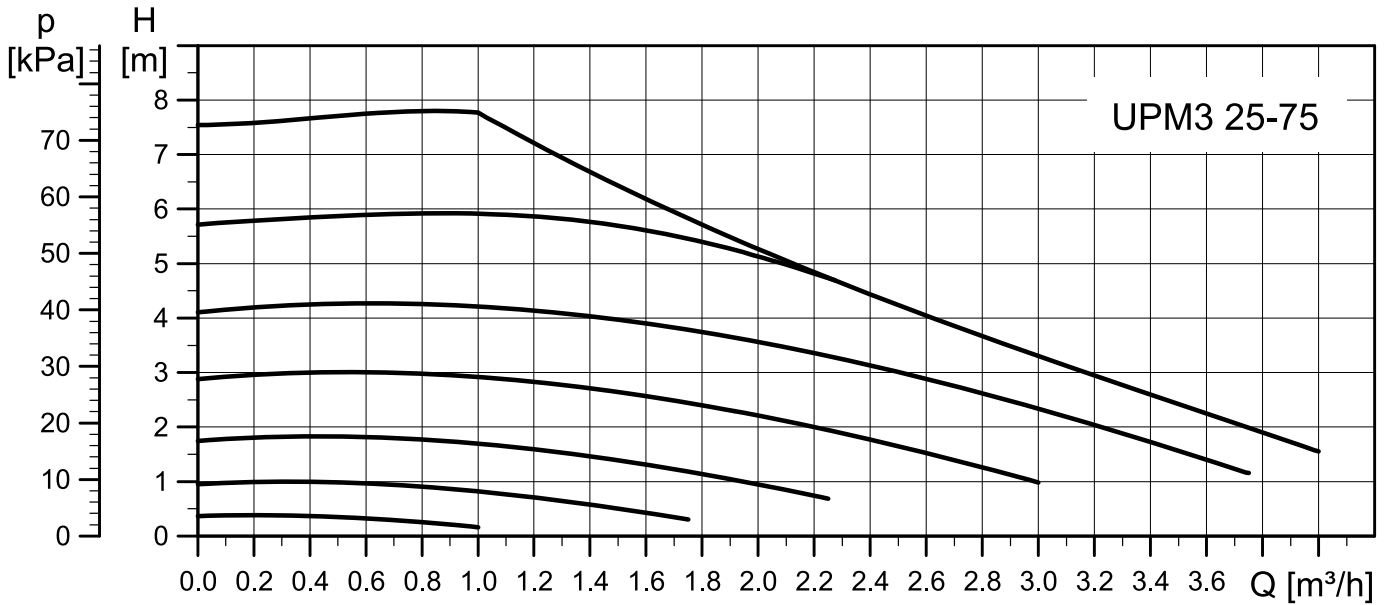
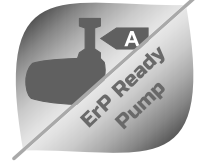
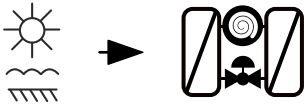
!!! Technical data subject to change without notice !!!

Source	Heating capacity / flow temperature ( kW )			Power input / flow temperature ( kW )			COP / flow temperature ( - )		
	35	45	55	35	45	55	35	45	55
10	10,02	9,37	9,02	1,75	2,05	2,60	5,73	4,57	3,47
9	9,67	9,06	8,72	1,72	2,02	2,56	5,63	4,48	3,40
8	9,33	8,74	8,42	1,69	1,99	2,53	5,53	4,40	3,33
7	9,06	8,52	8,22	1,67	1,98	2,52	5,42	4,31	3,26
6	8,85	8,31	8,02	1,66	1,97	2,52	5,32	4,22	3,19
5	8,64	8,11	7,82	1,65	1,96	2,51	5,22	4,13	3,12
4	8,44	7,99	7,76	1,65	1,97	2,55	5,12	4,05	3,04
3	8,25	7,80	7,55	1,64	1,97	2,54	5,01	3,96	2,97
2	8,05	7,62	7,43	1,64	1,97	2,57	4,91	3,87	2,90
1	7,86	7,43	7,35	1,64	1,96	2,60	4,80	3,79	2,82
0	7,66	7,25	7,17	1,63	1,96	2,61	4,70	3,70	2,75
-1	7,55	7,21	7,13	1,65	2,00	2,63	4,59	3,61	2,71
-2	7,45	7,18	7,10	1,66	2,04	2,66	4,48	3,53	2,67
-3	7,34	7,14	6,98	1,68	2,08	2,66	4,37	3,44	2,62
-4	7,24	7,10	6,89	1,70	2,12	2,67	4,26	3,35	2,58
-5	7,13	7,06	6,77	1,72	2,16	2,67	4,15	3,26	2,53

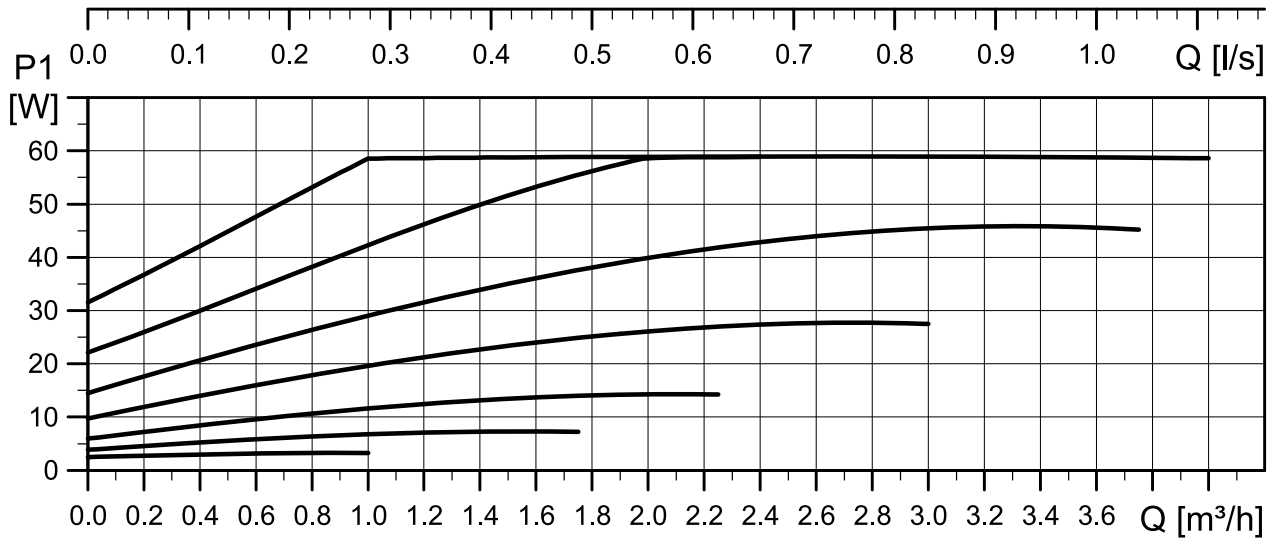
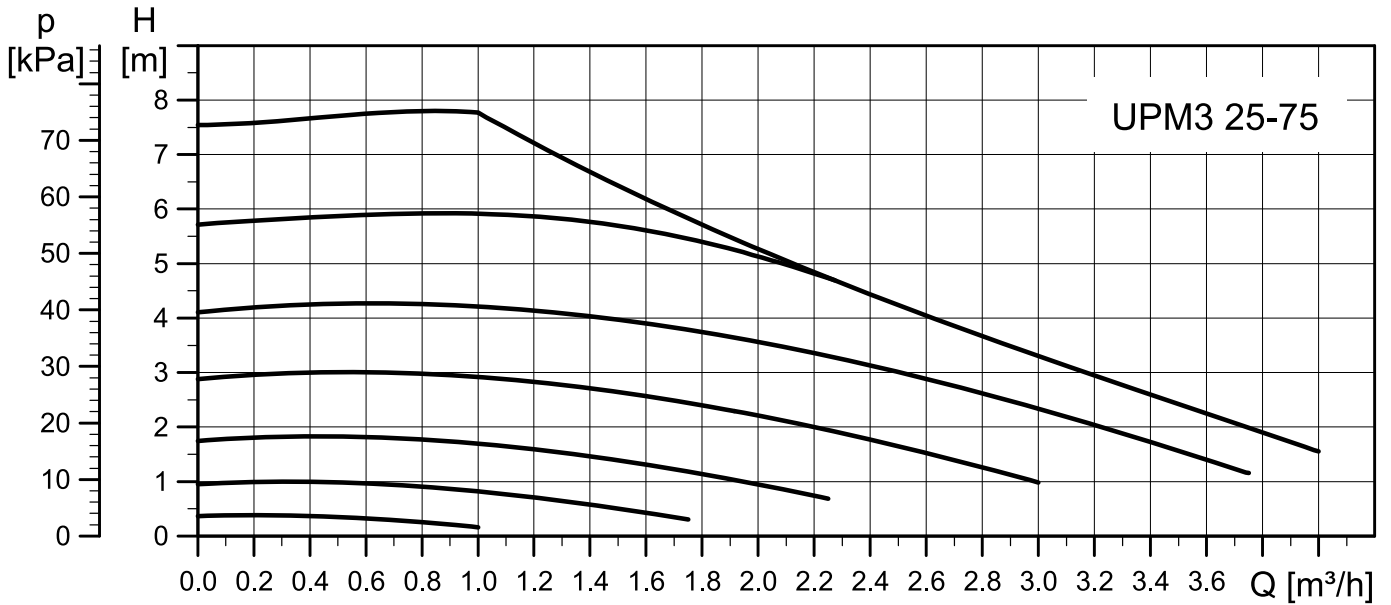
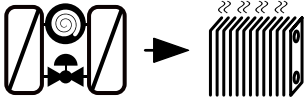


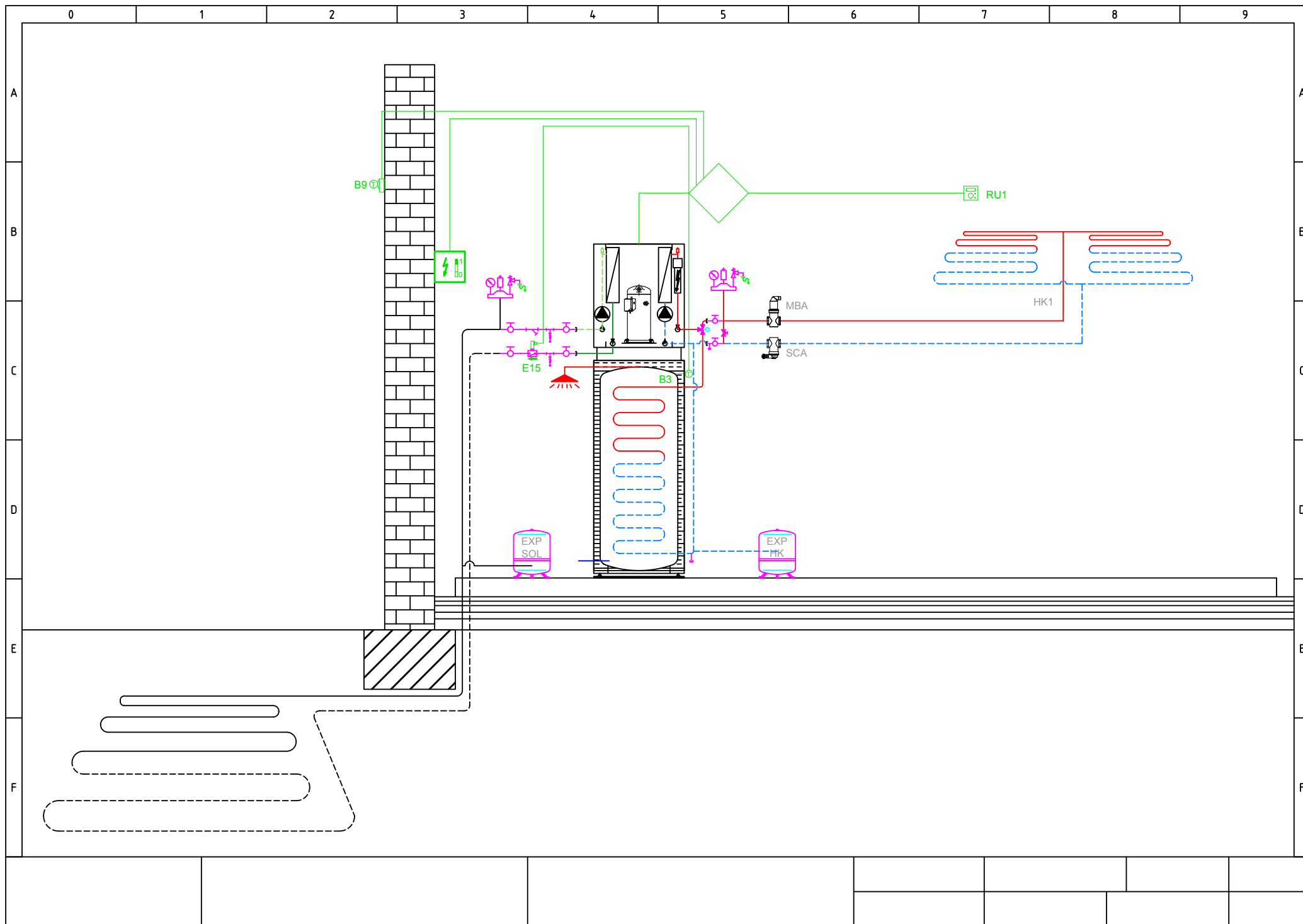
int. code: SK600 DuoBlock






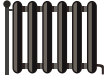







 **ENERG** Y IJA  
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**WAMAK** BW 08 Block

 55 °C 35 °C


**A++** **A++**

A++  
A+  
A  
B  
C  
D  
E  
F  
G

 **43** dB

 - dB

■ 7 ■ 8  
■ 7 ■ 8  
■ 7 ■ 8  
kW kW



2015 811/2013

**BW 08 Block** ErP Data

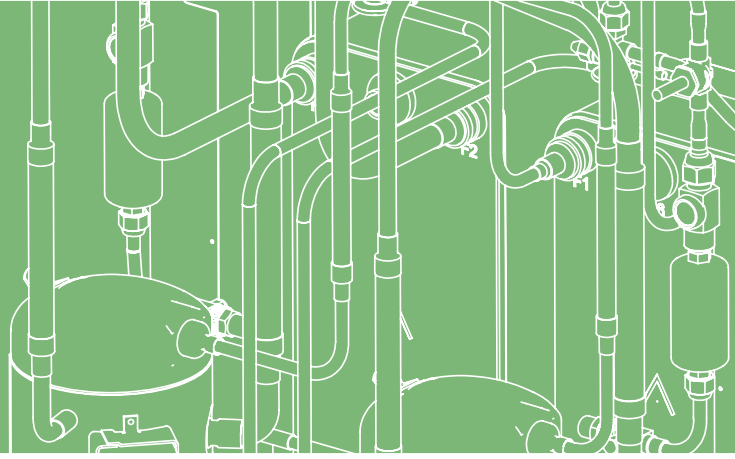
	55 °C	35 °C
Energy class	<b>A++</b>	<b>A++</b>
$\eta$ [%]	136	180
$P_{rated}$ [kW]	7	8
$Q_{HE}$ [kWh/y]	4513	3366
SCOP [-]	3.39	4.49
$T_{bivalent}$ [°C]	-	-

	A+	A++
Energy class	<b>A+</b>	<b>A++</b>
$\eta$ [%]	120	184
$P_{rated}$ [kW]	7	8
$Q_{HE}$ [kWh/y]	6259	4058
SCOP [-]	2.99	4.59
$T_{bivalent}$ [°C]	-	-

	A++	A++
Energy class	<b>A++</b>	<b>A++</b>
$\eta$ [%]	174	175
$P_{rated}$ [kW]	7	8
$Q_{HE}$ [kWh/y]	2181	2177
SCOP [-]	4.36	4.37
$T_{bivalent}$ [°C]	-	-

**CONTROLLER** 

+ QAA55/75	class VII	3.5% ↓
- QAA55/75	class III	1.5% ↓



SERVICE