Centrometal
HEATING TECHNIQUE

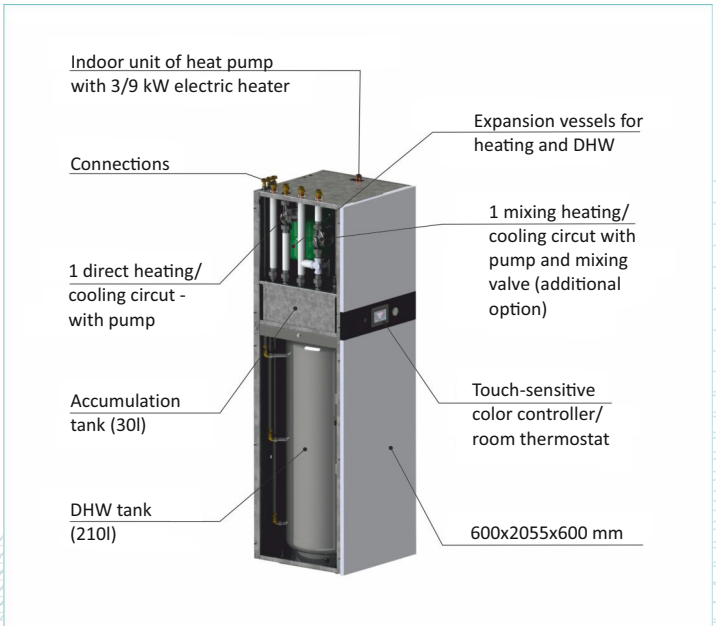
Tower-S/210

INDOOR UNIT OF THE HEAT PUMP

A heat pump represents a comprehensive solution for heating, cooling, and domestic hot water (DHW) production. The indoor unit of the split heat pump is an integrated 'all-in-one' system capable of heating or cooling the space and preparing domestic hot water. One of the major advantages of the **Tower-S/210** is its minimal space requirement, as its footprint dimensions of 600x600mm occupy the same space as a washing machine, next to which it is typically installed in apartments. It can replace any type of boiler or work in combination with it in an integrated hybrid system. The **Tower-S/210** is a very practical and efficient solution for apartments and houses, providing optimal comfort and energy efficiency.

CHARACTERISTICS Tower-S/210

- Air-water heat pumps
- Split models 6-16 kW
- Working medium R32
- DHW tank made of stainless steel (210l)
- Accumulation tank
- One direct heating circut (standard equipment + one mixing heating circut (additional option)
- Electric heater 3/9 kW
- Color regulation with touch screen



Tower-S/210

Color regulation with touch screen

SHPAI60RP24CM-EHT210 + SHPAI100RP24CM-EHT210 + SHPAI160RP24CM-EHT210

Characteristics - Outdoor Unit:[1]			6 kW	10 kW	16 kW
Model			SHPAO6RP24CM	SHPAO10 RP24CM	SHPAO16RP24P3CM
Power supply		V/f/Hz	220-240/1/50	220-240/1/50	380-415/3/50
Capacity	Heating A7/W35	kW	6.20	10.0	16.0
Rated input	Heating A7/W35	kW	1.24	2.00	3.56
COP	Heating A7/W35		5.00	5.00	4.50
Capacity	Heating A7/W55	kW	6.00	9.50	16.0
Rated input	Heating A7/W55	kW	2.00	3.06	5.52
COP	Heating A7/W55		3.00	3.10	2.90
Capacity	Cooling A35/W18	kW	6.55	10.0	14.9
Rated input	Cooling A35/W18	kW	1.34	2.08	4.38
EER	Cooling A35/W18		4.90	4.80	3.40
Capacity	Cooling A35/W7	kW	7.00	8.20	14.0
Rated input	Cooling A35/W7	kW	2.33	2.48	5.71
EER	Cooling A35/W7		3.00	3.30	2.45
Seasonal space heating energy efficiency class[2]	Main flow 35°C		A+++		
	Main flow 55°C		A++		
SCOP[2]	Main flow 35°C		4.95	5.20	4.62
	Main flow 55°C		3.52	3.47	3.41
ηs seasonal space heating efficiency	Main flow 35°C		195	205	182
	Main flow 55°C		138	137	133
SEER[2]	Main flow 7°C		5.34	5.98	4.67
Maximum overcurrent protection (MOP)		A	18	19	14
Minimum circuit ampacity (MCA)		A	14	17	12
Sound power level		dB(A)	58	60	68
Compressor	Type		Twin rotary DC inverter		
Outdoor fan	Air flow	m^3/h	2770	4030	4650
Net dimensions (WxHxD)		mm	1008x712x426	1118x865x523	1118×865×523
Packet dimensions (WxHxD)		mm	1065x800x485	1180x890x560	1180×890×560
Net/Gross weight		kg	58/64	77/88	112/125
Operating temperature range	Cooling	°C	-5 do 43		
	Heating	°C	-25 do 35		
	DHW	°C	-25 do 43		
Refrigerant	Type		R32		
	Charge	kg	1.50	1.65	1.84
Piping connections	Type		Flare		
	Liquid phase	mm	Ø 6.35	Ø 9.52	Ø 9.52
	Gas phase	mm	Ø 15.9		
	Min. pipe lenght	m	2		
	Max. pipe lenght	m	30		
Installation height differenec	Outdoor unit above	m	20		
	Outdoor unit below	m	20		

Characteristics - Indoor Unit:[1]			6 kW	10 kW	16 kW
Compatibile outdoor unit model			SHPAO6RP24CM	SHPAO10RP24CM	SHPAO16RP24P3CM
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50
Sound power level		dB(A)	38	42	43
Dimensions (WxHxD)		mm	600x2055x600		
Net/Gross weight		kg	265		
Water circuit	Piping connections	R	1"		
	Safety valve	bar	3.0		
	Intermal water volume	l	30		
	Drainage	mm	ø25		
	Expansion vessel	l	8.0		
	Water heat exchanger		Plate		
Water flow range		m^3/h	0.4~1.25	0.4~2.10	0.7~3.00
DHW	DHW tank volume	l	210		
	Exp. vessels for DHW	l	11		
	Connections	R	3/4"		
	Safety valve	bar	6		
Refrigerant circuit	Liquid phase	mm	ø 6.35	ø 9.52	ø 9.52
	Gas phase	mm	ø 15.9		
Backup electric heater	Standard	kW	3	3	9
	Capacity steps		1		
Main flow temperature range	Cooling	°C	5 do 25		
	Heating	°C	25 do 65		
	DHW[3]	°C	30 do 60		
Room temperature range		°C	5 do 35		

1. EU standard: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014. 2. In the average diamatic conditions.
3. Maximum domes°C is only available with DHW heater support.