HEATING · COOLING

R290 Multifunctional Heat Pump

Up to
21.90 kW
heating[1]

Up to
17.7 kW
cooling[2]

Up to
75 °C



[1] SHR290-22D1/22D3 at A7/6°C, W30/35°C.
[2] SHR290-22D1/22D3 at A35/24°C, W12/7°C.

Key Features

HEATING & COOLING
Heating and cooling in one unit.

DC INVERTER
DC inverter compressor and fan.

BUILT-IN PUMP
Grundfos inverter circulating pump.

WATER UP TO 75°C
Maximum outlet water temperature of 75°C.

Find the right Heat Pump for your project.

Contact us for model selection and system requirements.

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SMARTHEAT / MODEL COMPARISON

R290 Range

Heating, cooling and seasonal performance.

Models SHR290-9D1, 15D1, 15D3, 22D1 and 22D3

5 MODELS **R290 REFRIGERANT** PERFORMANCE

SPECIFICATION	UNIT	SHR290-9D1	SHR290-15D1	SHR290-15D3	SHR290-22D1	SHR290-22D3
HEATING / A7/6°C, W30/35°C						
Heating capacity	kW	3.00-9.05	4.30-15.20	4.30-15.20	7.24-21.90	7.24-21.90
Power input	kW	0.65-2.29	1.08-3.9	1.08-3.9	1.50-6.80	1.50-6.80
COP	W/W	3.95-5.15	3.85-5.10	3.85-5.10	3.24-5.05	3.24-5.05
HEATING / A7/6°C, W47/55°C						
Heating capacity	kW	2.85-8.50	5.0-13	5.0-13	7.00-18.9	7.00-18.9
Power input	kW	0.95-2.85	1.75-4.96	1.75-4.96	2.15-7.35	2.15-7.35
COP	W/W	2.68-3.35	2.62-3.25	2.62-3.25	2.56-3.18	2.56-3.18
COOLING / A35/24°C, W12/7°C						
Cooling capacity	kW	1.25-5.80	3.65-10.2	3.65-10.2	4.5-17.7	4.5-17.7
Power input	kW	0.65-2.35	1.12-4.16	1.12-4.16	1.80-7.30	1.80-7.30
EER	W/W	2.47-3.35	2.45-3.30	2.45-3.30	2.42-3.27	2.42-3.27
SEASONAL EFFICIENCY						
ErP level / water 35°C	-	A+++	A+++	A+++	A+++	A+++
ErP level / water 55°C	-	A+++	A+++	A+++	A+++	A+++
SCOP / water 35°C	-	4.83	4.85	4.85	4.90	4.90
SCOP / water 55°C	-	3.86	3.84	3.84	3.85	3.85

Ranges and decimal precision are shown as supplied.
A/W test conditions are reproduced as printed in the source data.

MODEL SELECTION

Contact us for help with model selection and system requirements.

SMARTHEAT / MODEL COMPARISON

R290 Range

Electrical, components and water-system data.

Models SHR290-9D1, 15D1, 15D3, 22D1 and 22D3

5 MODELS **R290 REFRIGERANT** TECHNICAL DATA

SPECIFICATION	UNIT	SHR290-9D1	SHR290-15D1	SHR290-15D3	SHR290-22D1	SHR290-22D3
ELECTRICAL & REFRIGERANT						
Power supply	V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	220-240 / 1 / 50	380-415 / 3 / 50
Maximum input power	kW	3.00	5.50	5.50	7.50	9.00
Maximum input current	A	13.50	24.50	10.50	35.00	16.00
Refrigerant	-	R290				
COMPONENTS						
Fan quantity	-	1	1	1	2	2
Fan motor type	-	DC Inverter				
Compressor	-	Highly / DC Inverter / Rotary / EVI				
Circulating pump	-	Grundfos / Inverter type / Built-in				
WATER SYSTEM						
Rated water flow	m^3/h	1.00	1.80	1.80	3.00	3.00
Maximum outlet water temp.	°C	75				
Water connections	-	DN25 (1")	DN25 (1")	DN25 (1")	DN32 (1-1/4")	DN32 (1-1/4")
Pressure drop at rated flow	kPa	20	25	25	60	60
PROTECTION & ACOUSTICS						
IP class	-	IPX4				
Sound pressure at 1 m	dB(A)	42	45	45	50	50
OPERATING RANGES & DIMENSIONS						
Operating temperature Heating mode	°C	-25 to 45				
Operating temperature Cooling mode	°C	16 to 45				
Unpacked dimensions (L × D × H)	mm	1150×410×800	1285×455×930	1285×455×930	1285×455×1350	1285×455×1350

Ranges and decimal precision are shown as supplied.

Dimensions are unpacked. Sound pressure is specified at 1 m.

MODEL SELECTION

Contact us for help with model selection and system requirements.