

HEAT PUMP NEOHEAT STANDARD

nesheat

Fuji Electric

NEOHEAT STANDARD HEAT PUMP

STANDARD

NEOHEAT 8 S | NEOHEAT 11 S
NEOHEAT 14 S | NEOHEAT 16 S

STANDARD HIGH POWER

NEOHEAT 11 S HP | NEOHEAT 14 S HP
NEOHEAT 16 S HP |
HEAT PUMP WITH HEATING DHW UP TO 60°C

HEAT PUMPS DESIGNED FOR HEATING
SINGLE-FAMILY HOUSES AND DOMESTIC
HOT WATER (DHW) WITH HIGH EFFICIENCY
A HEAT PUMP CAN ALSO CONTROL
A SECOND SOURCE, E.G. SOLAR
COLLECTORS, AND MORE.

The NEOHEAT heat pump has the ability of indoor heat and cold adjustment. The pump is also used to heat DHW and can be the main or complementary heat source. Each pump is equipped with a 6 kW electric heater (serving as a protection), remote access and a touch control panel.

BASIC EQUIPMENT

- Integrated electrical heater 3 x 2 kW
- Speed-regulated circulating pump with low sound level up to 6 dB
- 8 l expansion vessel
- 2.5 bar safety valve
- Flow measurement and control sensor
- 3-way valve for DHW
- Heat balance calorimeter
- DHW output
- Floor drying/heating program
- Second heat source control
- Touch control panel
- Working in an online environment
- Temperature control depending on external conditions

ACCESSORIES (OPTIONAL)

- Indoor unit temperature sensor
- 3-way valve for mixing two heat sources
- 3-way zone valve for solar collectors
- Remote access for maintenance
- Remote control via server



NAME OF THE SERIES			NEOHEAT STANDARD				NEOHEAT STANDARD HIGH POWER		
Type			Neoheat 8 S	Neoheat 11 S	Neoheat 14 S	Neoheat 16 S	Neoheat 11 S HP	Neoheat 14 S HP	Neoheat 16 S HP
Efficiency	Low temp.	kW	8	10.5	14	15	11	13	14
	Indirect temp.	kW	8	9	11	13	9	11	13
Bivalent point	Low temp.	°C	-7	-7	-7	-7	-7	-7	-7
	Indirect temp.	°C	-7	-6	-6	-6	-7	-7	-7
Seasonal energy efficiency (Eu 811, 813/2013)	Low temp.	%	155	150	148	148	154	150	149
	Indirect temp.	%	113	112	114	114	112	117	116
	Class		A++	A++	A+	A+	A++	A++	A+
SCOP			3.95	3.83	3.78	3.78	3.93	3.83	3.80
+2°C / +35°C (EN 14511)	Efficiency*	kW	8	10	13	14	11.1	14	15.1
	COP**		3.5	3.45	3.6	3.5	3.55	3.55	3.45
Annual DHW energy consumption	Low temp.	kWh	4,415	5,600	6,815	7,998	5,930	6,738	7,408
	Indirect temp.	kWh	5,415	6,418	7,712	8,347	6,669	7,803	9,062
Cooling capacity	+40°C / +15°C	kW	7.5	9.5	12	13.3	9.5	11.9	14
EER			3.21	2.9	3.22	3.01	3.22	3.01	2.9

INDOOR UNIT

Efficiency of electric heaters	Capacity	kW	6.0 (3 x 2 kW)						
Sound power level		dB(A)	42						
Dimensions	H x W x L	cm	65 x 57 x 30						
Weight	net	kg	64						
Condensation exchanger			stainless steel tank						
Max. lifting height of the pump		m	18						
Overpressure relief		MPa	0.25						
Heat circuit connection			G1, "female thread						
Pump efficiency	indoor unit	m	7.5						
Nominal flow of heated water		l/h	950	1,360	2,400	2,700	1,360	2,400	2,700
Circulation pump			Low-energy, according to the ERP Directive						
Counter-current protection		A	3 x 25	3 x 25	3 x 25	3 x 25	3 x 25	3 x 25	3 x 25

OUTDOOR UNIT

Power supply	Ph/V/Hz		1/230/50				3/400/50			
Current consumption	Max.	A	17	20	20.5	12	10.5	11.5	12.5	
Fan motor			DC - variable speed							
Sound power level		dB(A)	69	69	69	70	69	69	70	
Net dimensions	H x W x L	cm	83 x 90 x 33	83 x 90 x 33	129 x 90 x 33	129 x 90 x 33	129 x 90 x 33	129 x 90 x 33	129 x 90 x 33	
Weight	net	kg	68	68	86	86	93	93	93	
Refrigerant			R410A							
Amount of refrigerant in the device		kg	2.1	2.1	3.35	3.35	2.7	2.7	2.7	
Cooling lines	Diameter	Liquid	mm	ø 9.52						
		Gas	mm	ø 15.88						
	Length	Min. / Max.	m	5/50	5/50	5/50	5/50	5/50	5/50	5/50
	Length (not recharged)	Max.	m	20	20	20	20	20	20	20
	Max. level difference	Max.	m	30	30	30	30	30	30	30
Working temperature range		°C	-15 ~ 24				-20 ~ 35			
Max. water heating temperature		°C	55				60			
Min. water heating temperature		°C	15							
Compressor			DC - inverter (variable speed)							
Cooling circuit adjustment			electronic expansion valve							
Evaporator			Al-Cu vertical							
Airflow		m³/h	3,600	3,600	6,200	6,850	6,850			
Thawing			With hot gas through a non-return valve							
Limit for relative humidity			15 - 95%							

* 100% compressor operation.