

HEAT PUMP NeoRé TG



HEAT PUMPS WHICH ARE
DESIGNED FOR FAMILY
HOUSES HEATING AND
DOMESTIC HOT WATER
HEATING



- BUILT-IN BACKUP ELECTRIC HEATER
- EQUITHERMAL REGULATION
- EXPANSION TANK
- SMART REMOTE CONTROL
- POOL CIRCUIT CONTROL

OPTIONAL EQUIPMENT

- indoor temperature sensor
- 3-way mixing second circuit valve
- 3-way zone valve for pool
- outdoor unit console
- Neota Route service connection
- WiFi Router

- POWER 5-16 kW
- HEATING AND COOLING
- ECOLOGICAL REFRIGERANT R32
- LOW NOISE FROM 35 dB



STANDARD EQUIPMENT

- comprehensive regulation by Foxtrot
- integrated electric heater 3 × 2 kW
- circulator with speed control and lower noise up to 6 dB
- 8 l expansion tank for heating circuit
- 2,5 bar heating circuit safety valve
- sensor for pressure monitoring
- 3-way valve for DHW heating
- calorimeter
- DHW circulation electric output
- pool and secondary source service
- floor drying program
- equithermal regulation
- graphic touch screen
- build-in web server for remote control
- cloud access

NAME OF THE SERIES			COMFORT SERIES				HIGH POWER SERIES			
Type			NeoRé 5 TG	NeoRé 8 TG	NeoRé 11 TG	NeoRé 14 TG	NeoRé 8 TG HP	NeoRé 11 TG HP	NeoRé 14 TG HP	NeoRé 16 TG HP
Rated power	Low temperature (35°C)	kW	5	6	7	9	6	9	11	13
	Intermediate temp. (55°C)	kW	4	5	6	6	5	8	10	11
Bivalent temperature	Low temperature	°C	-7							
	Intermediate temp.	°C	-7							
Seasonal Energy Efficiency (Eu 811,813/2013)	Low temperature	%	174	176,4	174,9	172,5	194	192	186	184
	Intermediate temp.	%	121	123,6	122,8	120	133	134	127	124
	Class Low temperature		A++	A+++	A++	A++	A+++	A+++	A+++	A+++
	Class Intermediate temperature		A+	A+	A+	A+	A++	A++	A++	A+
Seasonal Coefficient of Performance SCOP	Class Low temperature		4,42	4,48	4,45	4,39	4,92	4,88	4,71	4,67
	Class Intermediate temperature		3,09	3,16	3,14	3,07	3,39	3,42	3,26	3,18
+2°C / +35°C (EN 14511)	Power / COP*	kW/-	4,5 / 3,7	8,0 / 3,7	9,0 / 3,7	11,8 / 3,6	8,0 / 4,1	11 / 4,2	13,5 / 4,0	15,5 / 3,8
-2°C / +35°C (EN 14511)	Power / COP*	kW/-	4,3 / 3,4	7,3 / 3,4	8,2 / 3,0	10,8 / 3,4	7,6 / 3,9	10,4 / 4,0	12,7 / 3,8	14,3 / 3,6
-7°C / +35°C (EN 14511)	Power / COP*	kW/-	3,9 / 3,1	6,3 / 3,0	7,1 / 3,0	9,3 / 3,0	6,9 / 3,6	9,5 / 3,7	11,5 / 3,5	12,8 / 3,3
-7°C / +55°C (EN 14511)	Power / COP*	kW/-	2,8 / 2,1	3,3 / 1,8	3,7 / 1,8	4,8 / 1,8	5,0 / 2,4	6,8 / 2,4	8,3 / 2,3	9,2 / 2,2
+5°C / +35°C (EN 14511)	Min. power (10% compressor power)	kW	1,0	2,9	3,2	4,2	1,8	2,5	3,0	3,5
Annual energy consumption	Low temperature	kWh	2102	2813	3361	4241	2466	3809	4821	5747
	Intermediate temp.	kWh	2339	3321	3714	4214	2921	4831	6337	7157
Cooling power	+40°C / +15°C	kW	3,9	6,33	9,47	11,46	7,1	10	11,5	13
EER			3,9	3,9	3,56	3,31	5,18	5,26	5	4,3

INDOOR UNIT										
Bivalent source	Power	kW	6,0 (3×2 kW)							
Indoor unit noise (acoustic power)		dB(A)	32,5 dB							
Indoor unit dimensions	H x W x D	cm	65 x 57 x 30							
Indoor unit weight		kg	48 netto							
Condensation exchanger	stainless steel - soldered									
Max. height of water column		m	18							
Overpressure relief		MPa	0,25							
Heating circuit connection	G1" inner thread									
Pumping power	(indoor unit)	m	6,8							
Nominal flow rate of heating w.		l/h	1000	1400	1900	2400	1400	1900	2400	2750
Circulation pump	ErP low energy PWM									
Lead protection		A	3x20	3x20	3x25	3x25	3x20	3x25	3x25	3x25

OUTDOOR UNIT												
Outdoor unit voltage					1f 230V					3f 400V		
Electric current			Max.	A	13,1	17,5	18,5	20	17,5	18,5	20	10,5
Fan engine			DC - variable revs									
Outdoor unit noise (acoustic pressure - 5m distance***)			dB(A)	35	37	39	39	34	37	37	38	
Outdoor unit dimensions			H x W x D	cm	63x87x30	89x90x32	89x90x32	89x90x32	105x101x37	155x101x37	155x101x37	134x90x32
Outdoor unit weight			(netto)	kg	45	68	68	68	74	104	104	95
Refrigerant			R32 (GWP=675)									
Refrigerant weight			kg	1,35	2,1	2,1	2,1	1,9	3,1	3,1	2,6	
Connection pipes	Diameter	Fluid	mm	ø 6,4	ø 9,52							
		Gas	mm	ø 12,7	ø 15,88							
	Lenght	Min. / Max.	m	3/25	5/30	5/30	5/30	3/30	3/40	3/40	3/40	
	Lenght (without filling)	Max.	m	20	30	30	30	30	30	30	30	
	Height difference	Max.	m	10	10	10	10	10	10	10	10	
Operational conditions			°C	-15 ~ 24				-27 ~ 24				
Max. temperature of heating water			°C	55				60				
Min. temperature of heating water			°C	20								
Compressor			DC - inverter (with variable revs)									
Regulation of cooling circle			electronic expansion valve									
Evaporator			Al-Cu vertical									
Air flow			m³/hr	2250	4080	4080	4200	3180	6180			
Defrosting			by hot gas thru reverse valve									
Limits for relative humidity			15-95%									

* Value is measured according to standard ČSN14511, 40% compressor power. (Measuring includes defrosting and total consumption of the technology of heat pump).

** Measured according to EN12102-1 at 3m, direction coefficient 2 | Values of seasonal energy are determine for average temperature band.