NEMO A HP: Motoevaporating heat pumps
for indoor installation, equipped with scroll compressor and plate heat exchanger
Cooling Capacity: **5,5 ÷ 25,0 kW**
Heating Capacity: **6,4 ÷ 29,3 kW**

nemo a hp

rcgroupairconditioning

R410A PLATE SPLIT SYSTEM

MAIN FEATURES
- Split-system heat pump liquid chiller.
- 13 models available, for a wide selection opportunity.
- Average step of 2,5kW.
- EER up to 2,90.
- COP up to 3,40.
- Scroll compressor.
- R410A Refrigerant charge.
- Single refrigerant circuit.
- Plate type heat exchanger.
- 3-speed circulation pump
- Suitable for indoor installation.
- Split-system.

MAIN BENEFITS
- Availability of partial heat recovery system.
- Availability of kit for the reduction of the noise.
- Availability of remote air/gas heat exchanger with axial fans (TEAM MATE HP series) and with plug fan (TEAM MATE HP PF series).
- Easily of maintenance.
- Eurovent Certification

INDOOR INSTALLATION
The machines are designed for indoor installation.

REMOTE EXCHANGER
The units are designed to be matched with remote exchanger with axial fans (TEAM MATE HP series) or plug-fan (TEAM MATE HP PF series).

COMPLETENESS OF EQUIPMENT AND OPTIONAL
The units are standardly equipped with 3-speed water pump.
On request is possible to install the system for the domestic hot water production and a chilled water tank.

WORKING LIMITS IN COOLING MODE
Evaporator chilled water outlet temperature: -12÷20°C
Ambient temperature: -10÷45°C

WORKING LIMITS IN HEATING MODE
Condenser hot water outlet temperature: 28÷58°C
Ambient temperature: -12÷30°C

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fifty cool years

MAIN COMPONENTS

FRAMEWORK
- Base, self supporting frame and panelling in steel plate with protective surfaces treatment in compliance with UNI ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders.
- Colour: RAL 9002
- Insulation of the internal framework.

COMPRESSOR
- Orbiting spiral (SCROLL) hermetic compressors with spiral profile optimized for R410A refrigerant.
- ON / OFF capacity control (0 / 100%).
- Crankcase heater.
- Electric motor thermal protection via internal winding temperature sensors.
- Rubber supports.
- Electric motor:
  - Version M: single-phase electric motor with direct on line starting.
  - Version T: 2-pole 3-phase electric motor with direct on line starting.
- Phase sequence electronic relay.

PLANT SIDE HEAT EXCHANGER
- Copper brazed plate type with cover plates, plates and connections in AISI 316 stainless steel.
- Anticondensate insulation made of polyurethane.
- Temperature sensors on water inlet and outlet.
- Differential water pressure switch for water flow control.
- 3-speed circulation pump.

REFRIGERANT CIRCUIT
- Reversing valve for refrigeration cycle inversion.
- Electronic expansion valve. The valve allows high performance and system efficiency thanks to a timely and accurate response to changes in temperature and pressure.
  The expansion valve is equipped with energy reserve to allow the closure of the valve in the event of lack of power supply.
- Service valves on liquid line and gas discharge.
- Pressure transducers with indication, control and protection functions, on low and high refrigerant pressure.
- 0÷10V proportional signal to manage the condensing/evaporating control system.
- High pressure safety switch with manual reset.
- Refrigerant circuit with copper tubing with anticondensate insulation of the suction line.
- Plastic capillary hoses for pressure sensors connection.
- R410A refrigerant charge.

ELECTRICAL PANEL
In accordance with EN60204-1 norms, suitable for indoor installation complete with:
- Main switch.
- Magnetothermic switch or fuses for compressor.
- Contactor for compressor.
- Transformer for auxiliary circuit and microprocessor supply.
- Panel with machine controls.
- Summer / Winter working mode selector.
- Power supply:
  - M: 230/3/50
  - T: 400/3/50+N.

CONTROL SYSTEM
- Microprocessor control. The system includes:
  - Display for the visualization of the alarm codes, set values and temperature values.
  - Dynamic set point.
  - Compressor running hour meter.
  - Contact for general alarm remotization.
  - “Low Temperature” set for operation with ambient air temperature up to -10°C.

HYDRAULIC CONNECTIONS OF HEAT EXCHANGERS
- The heat exchangers’ threaded hydraulic connections correspond to ISO 228/1 – G M

TO BE MATCHED WITH REMOTE AIR/GAS HEAT EXCHANGERS

The units are designed to be matched with remote air/gas heat exchangers with axial fans (TEAM MATE HP) or plug-fan (TEAM MATE HP PF) series.

TEAM MATE HP

pg: 155

TEAM MATE HP PF

pg: 159

OPTIONAL ACCESSORIES

NEMO A HP MODEL	M 06 P1 J3	M 08 P1 J3	M 10 P1 J3	M 13 P1 J3	T 06 P1 J3	T 08 P1 J3	T 10 P1 J3	T 13 P1 J3	T 15 P1 J3	T 17 P1 J3	T 20 P1 J3	T 25 P1 J3	T 30 P1 J3
TEAM MATE remote air/gas heat exchangers	●	●	●	●	●	●	●	●	●	●	●	●	●
TEAM MATE PF remote air/gas heat exchangers	●	●	●	●	●	●	●	●	●	●	●	●	●
450 - Desuperheater	●	●	●	●	●	●	●	●	●	●	●	●	●
610 - Noise deading cup on compressor	●	●	●	●	●	●	●	●	●	●	●	●	●
764 - Water tank	●	●	●	●	●	●	●	●	●	●	●	●	●
117 - Low water temperature set	●	●	●	●	●	●	●	●	●	●	●	●	●
920 - Remote control kit	●	●	●	●	●	●	●	●	●	●	●	●	●
923 - RC-Com MBUS/JBUS Serial board	●	●	●	●	●	●	●	●	●	●	●	●	●
889 - Master plant SEQUENCER	●	●	●	●	●	●	●	●	●	●	●	●	●
962 - Kit modem GSM	●	●	●	●	●	●	●	●	●	●	●	●	●
957 - Plantwatch without modem	●	●	●	●	●	●	●	●	●	●	●	●	●
930 - Remote graphic terminal kit	●	●	●	●	●	●	●	●	●	●	●	●	●

● available accessory; - not available accessory

TECHNICAL DATA NEMO A HP

	NEMO A HP		M 06 P1	M 08 P1	M 10 P1	M 13 P1	T 06 P1	T 08 P1	T 10 P1
	SIZE		J3	J3	J3	J3	J3	J3	J3
STANDARD	**Summer working mode - Cooling capacity (1)**	**kW**	**5,5**	**7,3**	**9,4**	**12,3**	**5,2**	**6,7**	**8,9**
	Unit power input (*)	kW	2,0	2,7	3,4	4,2	1,9	2,5	3,3
	Plant exchanger water flow rate	m³/h	1,0	1,3	1,6	2,1	0,9	1,1	1,5
	Plant exchanger pressure drop	kPa	33	22	29	25	29	19	26
	Winter working mode - Heating capacity (2)	**kW**	**6,4**	**8,3**	**10,9**	**14,1**	**6,1**	**7,7**	**10,3**
	Unit power input (*)	kW	2,1	2,7	3,4	4,1	2,1	2,6	3,3
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	1	1	1	1	1	1	1
	Capacity steps	n.	1	1	1	1	1	1	1
	Pumping group								
	3-speed water pump	kW	0,4	0,4	0,4	0,4	0,4	0,4	0,4
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	4,7	4,8	5,1	5,4	4,7	4,8	5,1
	Gas circuits	n.	1	1	1	1	1	1	1
	Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50+N	400/3/50+N	400/3/50+N
	Max unit operating current (FLA) (*)	A	14,8	19,1	23,0	33,0	6,7	8,5	10,0
	Unit starting current (LRA)	A	62,0	69,0	100,0	117,5	30,0	40,0	45,0
	EER - (1) (*)	kW/kW	2,82	2,73	2,74	2,9	2,69	2,65	2,71
	COP - (2) (*)	kW/kW	3,01	3,09	3,19	3,4	2,92	2,99	3,13
	Sound power level [Lw] (3)	dB(A)	56,2	56,2	58,2	58,2	56,2	56,2	58,2
	Average sound pressure level [Lpm] (4)	dB(A)	42,0	42,0	44,0	44,0	42,0	42,0	44,0
	Net weight	kg	90,6	92,4	101,6	105,5	90,5	92,4	101,6
	Hydraulic connections								
	Plant side exchanger IN/OUT - ISO228/1-G M	Ø	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
	Refrigerant connection								
	Liquid return	n x Ø	10	10	10	12	10	10	10
	Gas delivery	n x Ø	16	16	16	16	16	16	16
TEAM MATE HP	REMOTE AIR/GAS HEAT EXCHANGER								
	Quantity	n.	1	1	1	1	1	1	1
	Series TEAM MATE HP STD	Mod.	M 11	M 11	M 14	M 17	M 11	M 11	M 14
	Nominal power input	kW	0,3	0,3	0,3	0,3	0,3	0,3	0,3
	Max operating current	A	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
OPT	Partial heat recovery (5)								
	Heating capacity	**kW**	**2,0**	**2,7**	**3,5**	**4,5**	**1,9**	**2,4**	**3,3**
	Water tank - volume	l	40	40	40	40	40	40	40

1. Referred to chilled water temperature 12/7°C; ambient temperature 35°C.
2. Referred to hot water outlet temperature 45°C; 7°C ambient temperature.
3. Sound power level [Lw] according to ISO EN 9614 - 2
4. Average sound pressure level [L_{Pm}] 1m far according to ISO EN 3744.
5. Referred to chilled water temperature 12/7°C; ambient temperature 35°C and recovery hot water temperature 40/45°C.

(*) The value includes the remote air/gas heat exchanger
(**) The remote air/gas heat exchangers has separated power supply.

TECHNICAL DATA NEMO A HP

			M 06 P1 J3	M 08 P1 J3	M 10 P1 J3	M 13 P1 J3	T 06 P1 J3	T 08 P1 J3	T 10 P1 J3
TEAM MATE HP LNO	**NEMO A HP + TEAM MATE HP LNO**								
	Summer working mode - Cooling capacity (1)	**kW**	**5,5**	**7,2**	**9,2**	**12,3**	**5,2**	**6,5**	**8,7**
	Unit power input (*)	kW	2,0	2,7	3,5	4,3	1,9	2,5	3,3
	Winter working mode - Heating capacity (2)	**kW**	**6,4**	**8,3**	**10,7**	**14,0**	**6,1**	**7,6**	**10,1**
	Unit power input (*)	kW	2,1	2,6	3,3	4,2	2,0	2,5	3,2
	EER (1) (*)	kW/kW	2,79	2,65	2,63	2,86	2,67	2,59	2,62
	COP (2) (*)	kW/kW	3,04	3,1	3,17	3,32	2,94	3,01	3,1
	REMOTE AIR/GAS HEAT EXCHANGER								
	Quantity	n.	1	1	1	1	1	1	1
	Series TEAM MATE HP LNO	Mod.	M 11	M 11	M 14	M 20	M 11	M 11	M 14
	Nominal power input	kW	0,2	0,2	0,2	0,3	0,2	0,2	0,2
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
TEAM MATE HP ELN	**NEMO A HP + TEAM MATE HP ELN**								
	Summer working mode - Cooling capacity (1)	**kW**	**5,4**	**7,0**	**8,9**	**12,0**	**5,1**	**6,4**	**8,4**
	Unit power input (*)	kW	2,0	2,8	3,6	4,4	1,9	2,6	3,4
	Winter working mode - Heating capacity (2)	**kW**	**6,3**	**8,1**	**10,6**	**13,8**	**6,0**	**7,5**	**10,0**
	Unit power input (*)	kW	2,1	2,6	3,4	4,2	2,0	2,5	3,2
	EER (1) (*)	kW/kW	2,72	2,52	2,46	2,71	2,6	2,47	2,45
	COP (2) (*)	kW/kW	3,06	3,09	3,16	3,31	2,96	2,99	3,09
	REMOTE AIR/GAS HEAT EXCHANGER								
	Quantity	n.	1	1	1	1	1	1	1
	Series TEAM MATE HP ELN	Mod.	M 11	M 11	M 14	M 20	M 11	M 11	M 14
	Nominal power input	kW	0,2	0,2	0,2	0,3	0,2	0,2	0,2
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
TEAM MATE HP PF STD	**NEMO A HP + TEAM MATE PF HP STD**								
	Summer working mode - Cooling capacity (1)	**kW**	**5,5**	**7,3**	**9,0**	**12,0**	**5,2**	**6,7**	**8,5**
	Unit power input (*)	kW	2,1	2,8	3,8	4,6	2,1	2,6	3,6
	Winter working mode - Heating capacity (2)	**kW**	**6,4**	**8,3**	**10,5**	**13,7**	**6,1**	**7,7**	**9,9**
	Unit power input (*)	kW	2,3	2,8	3,5	4,3	2,2	2,7	3,4
	EER (1) (*)	kW/kW	2,64	2,61	2,41	2,61	2,52	2,52	2,38
	COP (2) (*)	kW/kW	2,84	2,95	2,97	3,17	2,75	2,85	2,9
	REMOTE AIR/GAS HEAT EXCHANGER								
	Quantity	n.	1	1	1	1	1	1	1
	Series TEAM MATE HP PF STD	Mod.	T 11	T 11	T 11	T 14	T 11	T 11	T 11
	External static pressure	Pa	50	50	50	50	50	50	50
	Nominal power input	kW	0,4	0,4	0,4	0,4	0,4	0,4	0,4
	Power supply (**)	V/ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
TEAM MATE HP PF LNO	**NEMO A HP + TEAM MATE PF HP LNO**								
	Summer working mode - Cooling capacity (1)	**kW**	**5,6**	**7,4**	**9,3**	**12,0**	**5,3**	**6,8**	**8,8**
	Unit power input (*)	kW	1,9	2,6	3,5	4,4	1,9	2,5	3,3
	Winter working mode - Heating capacity (2)	**kW**	**6,6**	**8,5**	**10,8**	**13,8**	**6,3**	**7,9**	**10,2**
	Unit power input (*)	kW	2,2	2,7	3,4	4,2	2,1	2,6	3,3
	EER (1) (*)	kW/kW	2,89	2,87	2,65	2,7	2,77	2,77	2,63
	COP (2) (*)	kW/kW	3,03	3,14	3,14	3,29	2,93	3,02	3,07
	REMOTE AIR/GAS HEAT EXCHANGER								
	Quantity	n.	1	1	1	1	1	1	1
	Series TEAM MATE HP PF LNO	Mod.	T 14	T 14	T 14	T 17	T 14	T 14	T 14
	External static pressure	Pa	36	36	36	36	36	36	36
	Nominal power input	kW	0,3	0,3	0,3	0,3	0,3	0,3	0,3
	Power supply (**)	V/ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
TEAM MATE HP PF ELN	**NEMO A HP + TEAM MATE PF HP ELN**								
	Summer working mode - Cooling capacity (1)	**kW**	**5,6**	**7,3**	**9,1**	**11,2**	**5,3**	**6,7**	**8,5**
	Unit power input (*)	kW	1,7	2,6	3,5	4,8	1,8	2,4	3,4
	Winter working mode - Heating capacity (2)	**kW**	**6,7**	**8,4**	**10,6**	**13,3**	**6,3**	**7,8**	**10,0**
	Unit power input (*)	kW	1,9	2,6	3,3	4,1	2,0	2,5	3,2
	EER (1) (*)	kW/kW	3,30	2,84	2,56	2,34	2,91	2,76	2,54
	COP (2) (*)	kW/kW	3,55	3,22	3,18	3,26	3,07	3,12	3,11
	REMOTE AIR/GAS HEAT EXCHANGER								
	Quantity	n.	1	1	1	1	1	1	1
	Series TEAM MATE HP PF ELN	Mod.	T 14	T 14	T 14	T 14	T 17	T 14	T 14
	External static pressure	Pa	25	25	25	25	25	25	25
	Nominal power input	kW	0,2	0,2	0,2	0,2	0,2	0,2	0,2
	Power supply (**)	V/ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60

1. Referred to chilled water temperature 12/7°C; ambient temperature 35°C.
2. Referred to hot water outlet temperature 45°C; 7°C ambient temperature.
3. Sound power level [Lw] according to ISO EN 9614 - 2
4. Average sound pressure level [LPm] 1m far according to ISO EN 3744.
5. Referred to chilled water temperature 12/7°C; ambient temperature 35°C and recovery hot water temperature 40/45°C.

(*) The value includes the remote air/gas heat exchanger
(**) The remote air/gas heat exchangers has separated power supply.

TECHNICAL DATA NEMO A HP

	NEMO A HP		T 13 P1	T 15 P1	T 17 P1	T 20 P1	T 25 P1	T 30 P1
	SIZE		J3	J3	J3	J3	J3	J3
STANDARD	**Summer working mode - Cooling capacity (1)**	**kW**	**11,6**	**13,1**	**15,6**	**17,0**	**21,5**	**25,0**
	Unit power input (*)	kW	4,3	4,8	5,6	6,5	7,7	9,0
	Plant exchanger water flow rate	m³/h	2,0	2,3	2,7	2,9	3,7	4,3
	Plant exchanger pressure drop	kPa	22	28	23	28	32	27
	Winter working mode - Heating capacity (2)	**kW**	**13,6**	**15,0**	**17,7**	**19,6**	**24,9**	**29,3**
	Unit power input (*)	kW	4,2	4,8	5,5	6,2	7,6	8,6
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	1	1	1	1	1	1
	Capacity steps	n.	1	1	1	1	1	1
	Pumping group							
	3-speed water pump	kW	0,4	0,4	0,4	0,4	0,4	0,4
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	5,4	5,4	5,8	5,8	6,5	7,1
	Gas circuits	n.	1	1	1	1	1	1
	Power supply	V/Ph/Hz	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N
	Max unit operating current (FLA) (*)	A	12,3	13,8	17,0	17,0	23,0	24,0
	Unit starting current (LRA)	A	53,5	66,0	77,0	103,0	113,0	120,0
	EER - (1) (*)	kW/kW	2,72	2,73	2,8	2,6	2,78	2,78
	COP - (2) (*)	kW/kW	3,21	3,11	3,24	3,14	3,28	3,39
	Sound power level [Lw] (3)	dB(A)	58,2	61,2	65,2	62,2	64,2	64,2
	Average sound pressure level [Lpm] (4)	dB(A)	44,0	47,0	51,0	48,0	50,0	50,0
	Net weight	kg	105,5	112,7	113,8	114,9	136,3	140,1
	Hydraulic connections							
	Plant side exchanger IN/OUT - ISO228/1-G M	Ø	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
	Refrigerant connection							
	Liquid return	n x Ø	12	12	12	12	16	16
	Gas delivery	n x Ø	16	16	16	16	22	22
TEAM MATE HP	REMOTE AIR/GAS HEAT EXCHANGER							
	Quantity	n.	1	1	1	1	1	1
	Series TEAM MATE HP STD	Mod.	M 17	M 20	M 25	M 25	M 30	M 35
	Nominal power input	kW	0,3	0,4	0,5	0,5	0,5	0,5
	Max operating current	A	1,2	1,8	2,9	2,9	2,9	2,9
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
OPT	Partial heat recovery (5)							
	Heating capacity	**kW**	**4,3**	**4,8**	**5,7**	**6,2**	**7,9**	**9,2**
	Water tank - volume	l	40	40	40	40	40	40

1. Referred to chilled water temperature 12/7°C; ambient temperature 35°C.
2. Referred to hot water outlet temperature 45°C; 7°C ambient temperature.
3. Sound power level [Lw] according to ISO EN 9614 - 2
4. Average sound pressure level [L_{Pm}] 1m far according to ISO EN 3744.
5. Referred to chilled water temperature 12/7°C; ambient temperature 35°C and recovery hot water temperature 40/45°C.

(*) The value includes the remote air/gas heat exchanger
(**) The remote air/gas heat exchangers has separated power supply.

TECHNICAL DATA NEMO A HP

			T 13 P1 J3	T 15 P1 J3	T 17 P1 J3	T 20 P1 J3	T 25 P1 J3	T 30 P1 J3
TEAM MATE HP LNO	**NEMO A HP + TEAM MATE HP LNO**							
	Summer working mode - Cooling capacity (1)	**kW**	**11,6**	**13,2**	**16,0**	**17,5**	**22,4**	**25,6**
	Unit power input (*)	kW	4,3	4,8	5,3	6,2	7,4	8,9
	Winter working mode - Heating capacity (2)	**kW**	**13,6**	**15,2**	**18,2**	**20,2**	**25,9**	**29,7**
	Unit power input (*)	kW	4,3	4,8	5,3	6,1	7,6	8,7
	EER (1) (*)	kW/kW	2,67	2,75	3,01	2,83	3,01	2,89
	COP (2) (*)	kW/kW	3,15	3,12	3,36	3,27	3,34	3,38
	REMOTE AIR/GAS HEAT EXCHANGER							
	Quantity	n.	1	1	1	1	1	1
	Series TEAM MATE HP LNO	Mod.	M 20	M 25	M 30	M 30	M 45	M 45
	Nominal power input	kW	0,3	0,5	0,5	0,5	0,7	0,7
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
TEAM MATE HP ELN	**NEMO A HP + TEAM MATE HP ELN**							
	Summer working mode - Cooling capacity (1)	**kW**	**11,3**	**12,9**	**15,7**	**17,0**	**21,9**	**24,8**
	Unit power input (*)	kW	4,4	4,8	5,4	6,3	7,6	9,1
	Winter working mode - Heating capacity (2)	**kW**	**13,4**	**15,0**	**18,0**	**19,9**	**25,5**	**29,2**
	Unit power input (*)	kW	4,3	4,8	5,3	6,1	7,6	8,7
	EER (1) (*)	kW/kW	2,54	2,66	2,91	2,69	2,89	2,72
	COP (2) (*)	kW/kW	3,14	3,13	3,38	3,26	3,34	3,36
	REMOTE AIR/GAS HEAT EXCHANGER							
	Quantity	n.	1	1	1	1	1	1
	Series TEAM MATE HP ELN	Mod.	M 20	M 25	M 30	M 30	M 45	M 45
	Nominal power input	kW	0,3	0,4	0,4	0,4	0,6	0,6
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
TEAM MATE HP PF STD	**NEMO A HP + TEAM MATE PF HP STD**							
	Summer working mode - Cooling capacity (1)	**kW**	**11,2**	**12,8**	**15,2**	**17,1**	**21,8**	**24,7**
	Unit power input (*)	kW	4,6	5,0	5,7	6,6	8,4	9,9
	Winter working mode - Heating capacity (2)	**kW**	**13,3**	**14,9**	**17,7**	**19,9**	**25,4**	**29,1**
	Unit power input (*)	kW	4,4	4,9	5,5	6,4	8,4	9,4
	EER (1) (*)	kW/kW	2,42	2,57	2,65	2,59	2,61	2,49
	COP (2) (*)	kW/kW	3	3,05	3,23	3,13	3,03	3,09
	REMOTE AIR/GAS HEAT EXCHANGER							
	Quantity	n.	1	1	1	1	1	1
	Series TEAM MATE HP PF STD	Mod.	T 14	T 17	T 21	T 24	T 33	T 33
	External static pressure	Pa	50	50	50	50	50	50
	Nominal power input	kW	0,4	0,5	0,5	0,6	1,3	1,3
	Power supply (**)	V/ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
TEAM MATE HP PF LNO	**NEMO A HP + TEAM MATE PF HP LNO**							
	Summer working mode - Cooling capacity (1)	**kW**	**11,3**	**12,9**	**15,3**	**17,7**	**21,8**	**24,8**
	Unit power input (*)	kW	4,5	4,8	5,6	6,5	7,8	9,3
	Winter working mode - Heating capacity (2)	**kW**	**13,4**	**15,1**	**17,7**	**20,5**	**25,4**	**29,1**
	Unit power input (*)	kW	4,3	4,8	5,4	6,6	7,8	8,9
	EER (1) (*)	kW/kW	2,53	2,67	2,73	2,73	2,79	2,66
	COP (2) (*)	kW/kW	3,12	3,17	3,29	3,12	3,25	3,28
	REMOTE AIR/GAS HEAT EXCHANGER							
	Quantity	n.	1	1	1	1	1	1
	Series TEAM MATE HP PF LNO	Mod.	T 17	T 21	T 24	T 33	T 38	T 38
	External static pressure	Pa	36	36	36	36	36	36
	Nominal power input	kW	0,3	0,3	0,4	0,8	0,7	0,7
	Power supply (**)	V/ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
TEAM MATE HP PF ELN	**NEMO A HP + TEAM MATE PF HP ELN**							
	Summer working mode - Cooling capacity (1)	**kW**	**10,5**	**11,9**	**14,1**	**16,0**	**20,5**	**23,8**
	Unit power input (*)	kW	4,8	5,1	5,9	6,8	8,2	9,5
	Winter working mode - Heating capacity (2)	**kW**	**12,9**	**14,4**	**17,1**	**19,3**	**24,6**	**28,6**
	Unit power input (*)	kW	4,2	4,6	5,2	6,0	7,6	8,6
	EER (1) (*)	kW/kW	2,18	2,33	2,37	2,36	2,51	2,50
	COP (2) (*)	kW/kW	3,07	3,10	3,31	3,23	3,24	3,31
	REMOTE AIR/GAS HEAT EXCHANGER							
	Quantity	n.	1	1	1	1	1	1
	Series TEAM MATE HP PF ELN	Mod.	T 14	T 17	T 21	T 24	T 33	T 38
	External static pressure	Pa	25	25	25	25	25	25
	Nominal power input	kW	0,2	0,2	0,2	0,3	0,5	0,5
	Power supply (**)	V/ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60

1. Referred to chilled water temperature 12/7°C; ambient temperature 35°C.
2. Referred to hot water outlet temperature 45°C; 7°C ambient temperature.
3. Sound power level [Lw] according to ISO EN 9614 - 2
4. Average sound pressure level [L_{Pm}] 1m far according to ISO EN 3744.
5. Referred to chilled water temperature 12/7°C; ambient temperature 35°C and recovery hot water temperature 40/45°C.

(*) The value includes the remote air/gas heat exchanger
(**) The remote air/gas heat exchangers has separated power supply.

DIMENSIONS (mm)