



*Lamborghini*  
CALORECLIMA

**AZIENDA CERTIFICATA ISO 9001**

POMPE DI CALORE REVERSIBILI PER INSTALLAZIONE ESTERNA  
CON COMPRESSORE DC INVERTER  
REVERSIBLE HEAT PUMP UNITS FOR OUTDOOR INSTALLATION  
WITH DC INVERTER COMPRESSOR



Cod. 3QE47990 - Rev. 03 - 06/2023



**IDOLA M 3.2 22T- 30T**

**IT**

**BOLLETTINO TECNICO**

**EN**

**TECHNICAL DATA MANUAL**

## Dati ERP / ERP data

Modello / Models		22T	26T	30T	UM
Classe di efficienza in riscaldamento / Seasonal space heating energy efficiency class	bassa temperatura (acqua prodotta 35°C) low temperature (water outlet at 35°C)	178 A+++	177 A+++	165 A++	ηs (%) class
	media temperatura (acqua prodotta 55°C) medium temperature (water at 55°C)	126 A++	123 A+	123 A+	ηs (%) class
SCOP	bassa temperatura (acqua prodotta 35°C) low temperature (water outlet at 35°C)	4,53	4,50	4,19	W/W
	media temperatura (acqua prodotta 55°C) medium temperature (water at 55°C)	3,22	3,14	3,14	W/W
SEER	acqua prodotta 7°C water at 7°C	4,70	4,66	4,49	W/W
	acqua prodotta 18°C water at 18°C	5,67	5,88	5,71	W/W

**NOTA:** Classe di efficienza calcolata secondo regolamento europeo 811/2013. I valori si riferiscono ad unità prive di eventuali opzioni o accessori.

**NOTA:** Declared according to European regulation 811/2013. The values are referred to units without options and accessories.

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**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 22T - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

Technical parameters	
Model(s):	IDOLA M 3.2 22T
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22,4	kW	Seasonal space heating energy efficiency		126	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7	Pdh	19,8	kW	Tj = -7	COPd	1,74	-
Tj = 2	Pdh	11,9	kW	Tj = 2	COPd	3,3	-
Tj = 7	Pdh	8	kW	Tj = 7	COPd	4,62	-
Tj = 12	Pdh	3,6	kW	Tj = 12	COPd	5,2	-
Tj = bivalent temperature	Pdh	19,8	kW	Tj = bivalent temperature	COPd	1,74	-
Tj = operating limit	Pdh	13,8	kW	Tj = operating limit	COPd	1,08	-
For air-to-water heat pumps: Tj = -15	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	2,6	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	LWA	-73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	14390	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)**

Technical parameters	
Model(s):	IDOLA M 3.2 22T
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature (55°C) application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22,4	kW	Seasonal space heating energy efficiency	$\eta_s$	102	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	13,5	kW	Tj = -7°C	COPd	2,07	-
Tj = 2°C	Pdh	8,6	kW	Tj = 2°C	COPd	3,70	-
Tj = 7°C	Pdh	5,2	kW	Tj = 7°C	COPd	4,49	-
Tj = 12°C	Pdh	3,7	kW	Tj = 12°C	COPd	5,76	-
Tj = bivalent temperature	Pdh	13,5	kW	Tj = bivalent temperature	COPd	2,07	-
Tj = operating limit	Pdh	13,8	kW	Tj = operating limit	COPd	1,24	-
For air-to-water heat pumps: Tj = -15°C	Pdh	13,8	kW	For air-to-water heat pumps: Tj = -15	COPd	1,24	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-15	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	50	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	8,9	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	- / 73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	21067	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)**

Technical parameters							
Model(s):	IDOLA M 3.2 22T						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for medium-temperature (55°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22,0	kW	Seasonal space heating energy efficiency	$\eta_s$	161	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	22,1	kW	Tj = 2°C	COPd	2,12	-
Tj = 7°C	Pdh	14,1	kW	Tj = 7°C	COPd	3,50	-
Tj = 12°C	Pdh	6,4	kW	Tj = 12°C	COPd	5,34	-
Tj = bivalent temperature	Pdh	14,1	kW	Tj = bivalent temperature	COPd	3,50	-
Tj = operating limit	Pdh	22,1	kW	Tj = operating limit	COPd	2,12	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	7,9	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	7180	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima medio - Bassa temperatura (35°C) / Heating mode - Average climate - Low temperature (35°C)**

Technical parameters							
Model(s):				IDOLA M 3.2 22T			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for low-temperature (35°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22	kW	Seasonal space heating energy efficiency	$\eta_s$	178	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	19,73	kW	Tj = -7°C	COPd	2,74	-
Tj = 2°C	Pdh	12,04	kW	Tj = 2°C	COPd	4,4	-
Tj = 7°C	Pdh	8,02	kW	Tj = 7°C	COPd	6,24	-
Tj = 12°C	Pdh	3,81	kW	Tj = 12°C	COPd	7	-
Tj = bivalent temperature	Pdh	19,73	kW	Tj = bivalent temperature	COPd	2,74	-
Tj = operating limit	Pdh	20,34	kW	Tj = operating limit	COPd	2,35	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	2,27	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	10180	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima più freddo - Bassa temperatura (35°C) / Heating mode - Colder climate - Low temperature (35°C)**

Technical parameters			
Model(s):	IDOLA M 3.2 22T		
Air-to-water heat pump:	YES		
Water-to-water heat pump:	NO		
Brine-to-water heat pump:	NO		
Low-temperature heat pump:	NO		
Equipped with a supplementary heater:	NO		
Heat pump combination heater:	NO		
Declared climate condition:	COLDER		
Parameters are declared for low-temperature (35°C) application.			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	21	kW	Seasonal space heating energy efficiency	$\eta_s$	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	13,3	kW	Tj = -7°C	COPd	3,12	-
Tj = 2°C	Pdh	8,25	kW	Tj = 2°C	COPd	4,42	-
Tj = 7°C	Pdh	5,45	kW	Tj = 7°C	COPd	5,87	-
Tj = 12°C	Pdh	3,98	kW	Tj = 12°C	COPd	7,19	-
Tj = bivalent temperature	Pdh	17,46	kW	Tj = bivalent temperature	COPd	2,36	-
Tj = operating limit	Pdh	13,27	kW	Tj = operating limit	COPd	1,69	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	3,54	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	14179	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 22T - Modo riscaldamento - Clima più caldo - Bassa temperatura (35°C) / Heating mode - Warmer climate - Low temperature (35°C)

Technical parameters							
Model(s):	IDOLA M 3.2 22T						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for low-temperature (35°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22	kW	Seasonal space heating energy efficiency	$\eta_s$	234	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	21,81	kW	Tj = 2°C	COPd	3,31	-
Tj = 7°C	Pdh	14,08	kW	Tj = 7°C	COPd	5,2	-
Tj = 12°C	Pdh	6,44	kW	Tj = 12°C	COPd	7,5	-
Tj = bivalent temperature	Pdh	14,08	kW	Tj = bivalent temperature	COPd	5,2	-
Tj = operating limit	Pdh	21,81	kW	Tj = operating limit	COPd	3,31	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	7,92	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	4945	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)**

Information requirements for comfort chillers							
Model(s):				IDOLA M 3.2 22T			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	20,6	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	185	%
Declared cooling capacity for part load at given outdoor temperature $T_j$				Declared energy efficiency ratio for part load at given outdoor temperature $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	20,6	kW	$T_j=+35^\circ\text{C}$	EERd	2,89	-
$T_j=+30^\circ\text{C}$	$P_{dc}$	14,9	kW	$T_j=+30^\circ\text{C}$	EERd	3,95	-
$T_j=+25^\circ\text{C}$	$P_{dc}$	9,3	kW	$T_j=+25^\circ\text{C}$	EERd	5,37	-
$T_j=+20^\circ\text{C}$	$P_{dc}$	4,3	kW	$T_j=+20^\circ\text{C}$	EERd	6,19	-
Degradation co-efficient for chillers (*)	$C_{dc}$	0,9	-				
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0,017	kW	Crankcase heater mode	$P_{CK}$	0,000	kW
Thermosat-off mode	$P_{TO}$	0,084	kW	Standby mode	$P_{SB}$	0,017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	8950	$\text{m}^3/\text{h}$
Sound power level, indoors / outdoors	$L_{WA}$	-73	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x$ (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	$\text{m}^3/\text{h}$
GWP of the refrigerant	-	675	kg $\text{CO}_2$ eq (100years)				
Standard rating conditions used		Low temperature application					
Contact details		Ferrolì spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolì.com					
(*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)**

Information requirements for comfort chillers							
Model(s):		IDOLA M 3.2 22T					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	22,8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	224	%
Declared cooling capacity for part load at given outdoor temperature $T_j$				Declared energy efficiency ratio for part load at given outdoor temperature $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	22,8	kW	$T_j=+35^\circ\text{C}$	EERd	4,25	-
$T_j=+30^\circ\text{C}$	$P_{dc}$	16,3	kW	$T_j=+30^\circ\text{C}$	EERd	5,16	-
$T_j=+25^\circ\text{C}$	$P_{dc}$	10,2	kW	$T_j=+25^\circ\text{C}$	EERd	6,45	-
$T_j=+20^\circ\text{C}$	$P_{dc}$	4,6	kW	$T_j=+20^\circ\text{C}$	EERd	6,38	-
Degradation co-efficient for chillers (*)		$C_{dc}$	0,9	-			
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0,017	kW	Crankcase heater mode	$P_{CK}$	0,000	kW
Thermosat-off mode	$P_{TO}$	0,084	kW	Standby mode	$P_{SB}$	0,017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	8950	m <sup>3</sup> /h
Sound power level, indoors / outdoors	$L_{WA}$	-73	dB				
Emissions of nitrogen oxides (if applicable)	NOx (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m <sup>3</sup> /h
GWP of the refrigerant	-	675	kg CO <sub>2</sub> eq (100years)				
Standard rating conditions used		Medium temperature application					
Contact details		Ferrolispa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolispa.com					
(*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)**

Technical parameters							
Model(s):				IDOLA M 3.2 26T			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-temperature (55°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26,1	kW	Seasonal space heating energy efficiency	$\eta_s$	123	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	20,6	kW	Tj = -7°C	COPd	1,69	-
Tj = 2°C	Pdh	14,3	kW	Tj = 2°C	COPd	3,11	-
Tj = 7°C	Pdh	9,3	kW	Tj = 7°C	COPd	4,72	-
Tj = 12°C	Pdh	3,9	kW	Tj = 12°C	COPd	5,41	-
Tj = bivalent temperature	Pdh	22,1	kW	Tj = bivalent temperature	COPd	1,88	-
Tj = operating limit	Pdh	13,8	kW	Tj = operating limit	COPd	1,08	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	4	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	11200	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	17204	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)**

Technical parameters	
Model(s):	IDOLA M 3.2 26T
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature (55°C) application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26,3	kW	Seasonal space heating energy efficiency	$\eta_s$	101	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	15,9	kW	Tj = -7°C	COPd	2,10	-
Tj = 2°C	Pdh	10,2	kW	Tj = 2°C	COPd	3,58	-
Tj = 7°C	Pdh	6,5	kW	Tj = 7°C	COPd	4,99	-
Tj = 12°C	Pdh	3,6	kW	Tj = 12°C	COPd	5,68	-
Tj = bivalent temperature	Pdh	15,9	kW	Tj = bivalent temperature	COPd	2,10	-
Tj = operating limit	Pdh	13,4	kW	Tj = operating limit	COPd	1,20	-
For air-to-water heat pumps: Tj = -15°C	Pdh	13,4	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1,20	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-15	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	50	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	10,4	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	11200	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	24967	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)**

Technical parameters							
Model(s):	IDOLA M 3.2 26T						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for medium-temperature (55°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26,2	kW	Seasonal space heating energy efficiency	$\eta_s$	168	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	26,5	kW	Tj = 2°C	COPd	1,99	-
Tj = 7°C	Pdh	16,9	kW	Tj = 7°C	COPd	3,47	-
Tj = 12°C	Pdh	7,6	kW	Tj = 12°C	COPd	5,94	-
Tj = bivalent temperature	Pdh	16,9	kW	Tj = bivalent temperature	COPd	3,47	-
Tj = operating limit	Pdh	26,5	kW	Tj = operating limit	COPd	1,99	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	9,3	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	11200	m³/h
Sound power level, indoors/outdoors	<sup>l</sup> WA	-75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>o</sup> HE	8218	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>o</sup> clec	-	kWh	Daily fuel consumption	<sup>o</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima medio - Bassa temperatura (35°C) / Heating mode - Average climate - Low temperature (35°C)**

Technical parameters							
Model(s):				IDOLA M 3.2 26T			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for low-temperature (35°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	25	kW	Seasonal space heating energy efficiency	$\eta_s$	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	22,15	kW	Tj = -7°C	COPd	2,56	-
Tj = 2°C	Pdh	13,78	kW	Tj = 2°C	COPd	4,41	-
Tj = 7°C	Pdh	9,38	kW	Tj = 7°C	COPd	6,43	-
Tj = 12°C	Pdh	4,11	kW	Tj = 12°C	COPd	7,08	-
Tj = bivalent temperature	Pdh	22,15	kW	Tj = bivalent temperature	COPd	2,56	-
Tj = operating limit	Pdh	20,36	kW	Tj = operating limit	COPd	2,34	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	2,85	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	/75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	11489	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima più freddo - Bassa temperatura (35°C) / Heating mode - Colder climate - Low temperature (35°C)**

Technical parameters			
Model(s):	IDOLA M 3.2 26T		
Air-to-water heat pump:	YES		
Water-to-water heat pump:	NO		
Brine-to-water heat pump:	NO		
Low-temperature heat pump:	NO		
Equipped with a supplementary heater:	NO		
Heat pump combination heater:	NO		
Declared climate condition:	COLDER		
Parameters are declared for low-temperature (35°C) application.			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26	kW	Seasonal space heating energy efficiency	$\eta_s$	143	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	15,91	kW	Tj = -7°C	COPd	3,1	-
Tj = 2°C	Pdh	10,1	kW	Tj = 2°C	COPd	4,45	-
Tj = 7°C	Pdh	6,3	kW	Tj = 7°C	COPd	6,06	-
Tj = 12°C	Pdh	4,03	kW	Tj = 12°C	COPd	7,13	-
Tj = bivalent temperature	Pdh	18,97	kW	Tj = bivalent temperature	COPd	2,36	-
Tj = operating limit	Pdh	13,07	kW	Tj = operating limit	COPd	1,67	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	-12	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	7,03	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	17421	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 26T - Modo riscaldamento - Clima più caldo - Bassa temperatura (35°C) / Heating mode - Warmer climate - Low temperature (35°C)

Technical parameters							
Model(s):	IDOLA M 3.2 26T						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for low-temperature (35°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26	kW	Seasonal space heating energy efficiency	$\eta_s$	231	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	25,5	kW	Tj = 2°C	COPd	3	-
Tj = 7°C	Pdh	16,77	kW	Tj = 7°C	COPd	5,02	-
Tj = 12°C	Pdh	7,65	kW	Tj = 12°C	COPd	7,78	-
Tj = bivalent temperature	Pdh	16,77	kW	Tj = bivalent temperature	COPd	5,02	-
Tj = operating limit	Pdh	25,5	kW	Tj = operating limit	COPd	3	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	9,23	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	5959	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolispa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolispa.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)**

Information requirements for comfort chillers							
Model(s):		IDOLA M 3.2 26T					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	25,5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	183	%
Declared cooling capacity for part load at given outdoor temperature $T_j$				Declared energy efficiency ratio for part load at given outdoor temperature $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	25,5	kW	$T_j=+35^\circ\text{C}$	EERd	2,63	-
$T_j=+30^\circ\text{C}$	$P_{dc}$	18,5	kW	$T_j=+30^\circ\text{C}$	EERd	3,79	-
$T_j=+25^\circ\text{C}$	$P_{dc}$	11,8	kW	$T_j=+25^\circ\text{C}$	EERd	5,19	-
$T_j=+20^\circ\text{C}$	$P_{dc}$	5,6	kW	$T_j=+20^\circ\text{C}$	EERd	6,84	-
Degradation co-efficient for chillers (*)		$C_{dc}$	0,9	-			
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0,017	kW	Crankcase heater mode	$P_{CK}$	0,000	kW
Thermosat-off mode	$P_{TO}$	0,084	kW	Standby mode	$P_{SB}$	0,017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	9750	m <sup>3</sup> /h
Sound power level, indoors / outdoors	$L_{WA}$	-75	dB				
Emissions of nitrogen oxides (if applicable)	NOx (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m <sup>3</sup> /h
GWP of the refrigerant	-	675	kg CO <sub>2</sub> eq (100years)				
Standard rating conditions used		Low temperature application					
Contact details		Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com					
(*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)**

Information requirements for comfort chillers							
Model(s):		IDOLA M 3.2 26T					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	26,8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	226	%
Declared cooling capacity for part load at given outdoor temperature $T_j$				Declared energy efficiency ratio for part load at given outdoor temperature $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	26,8	kW	$T_j=+35^\circ\text{C}$	EERd	4,04	-
$T_j=+30^\circ\text{C}$	$P_{dc}$	19,4	kW	$T_j=+30^\circ\text{C}$	EERd	5,21	-
$T_j=+25^\circ\text{C}$	$P_{dc}$	12,1	kW	$T_j=+25^\circ\text{C}$	EERd	6,23	-
$T_j=+20^\circ\text{C}$	$P_{dc}$	5,9	kW	$T_j=+20^\circ\text{C}$	EERd	6,94	-
Degradation co-efficient for chillers (*)	$C_{dc}$	0,9	-				
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0,017	kW	Crankcase heater mode	$P_{CK}$	0,000	kW
Thermosat-off mode	$P_{TO}$	0,084	kW	Standby mode	$P_{SB}$	0,017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	9750	m <sup>3</sup> /h
Sound power level, indoors / outdoors	$L_{WA}$	-75	dB				
Emissions of nitrogen oxides (if applicable)	NOx (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m <sup>3</sup> /h
GWP of the refrigerant	-	675	kg CO <sub>2</sub> eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)**

Technical parameters							
Model(s):				IDOLA M 3.2 30T			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-temperature (55°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	29,7	kW	Seasonal space heating energy efficiency	$\eta_s$	123	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	20,1	kW	Tj = -7°C	COPd	1,63	-
Tj = 2°C	Pdh	16,5	kW	Tj = 2°C	COPd	3,09	-
Tj = 7°C	Pdh	10,5	kW	Tj = 7°C	COPd	4,73	-
Tj = 12°C	Pdh	4,7	kW	Tj = 12°C	COPd	5,85	-
Tj = bivalent temperature	Pdh	24,0	kW	Tj = bivalent temperature	COPd	2,02	-
Tj = operating limit	Pdh	13,8	kW	Tj = operating limit	COPd	1,07	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	5,7	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	11200	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-77	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	19316	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)**

Technical parameters							
Model(s):				IDOLA M 3.2 30T			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Declared climate condition:				COLDER			
Parameters are declared for medium-temperature (55°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	30,4	kW	Seasonal space heating energy efficiency	$\eta_s$	100	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	18,4	kW	Tj = -7°C	COPd	2,10	-
Tj = 2°C	Pdh	11,2	kW	Tj = 2°C	COPd	3,51	-
Tj = 7°C	Pdh	7,4	kW	Tj = 7°C	COPd	5,18	-
Tj = 12°C	Pdh	3,6	kW	Tj = 12°C	COPd	5,73	-
Tj = bivalent temperature	Pdh	18,4	kW	Tj = bivalent temperature	COPd	2,10	-
Tj = operating limit	Pdh	13,1	kW	Tj = operating limit	COPd	1,18	-
For air-to-water heat pumps: Tj = -15°C	Pdh	13,1	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1,18	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-15	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	50	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	12	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	11200	m³/h
Sound power level, indoors/outdoors	LWA	-77	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	29238	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)**

Technical parameters							
Model(s):	IDOLA M 3.2 30T						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for medium-temperature (55°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	29,7	kW	Seasonal space heating energy efficiency	$\eta_s$	163	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	26,4	kW	Tj = 2°C	COPd	1,99	-
Tj = 7°C	Pdh	19,1	kW	Tj = 7°C	COPd	3,37	-
Tj = 12°C	Pdh	8,9	kW	Tj = 12°C	COPd	6,09	-
Tj = bivalent temperature	Pdh	19,1	kW	Tj = bivalent temperature	COPd	3,37	-
Tj = operating limit	Pdh	26,4	kW	Tj = operating limit	COPd	1,99	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	10,6	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	11200	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-77	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	9580	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima medio - Bassa temperatura (35°C) / Heating mode - Average climate - Low temperature (35°C)**

Technical parameters							
Model(s):				IDOLA M 3.2 30T			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for low-temperature (35°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	29	kW	Seasonal space heating energy efficiency	$\eta_s$	165	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	21,95	kW	Tj = -7°C	COPd	2,53	-
Tj = 2°C	Pdh	16,22	kW	Tj = 2°C	COPd	4,12	-
Tj = 7°C	Pdh	10,69	kW	Tj = 7°C	COPd	6,21	-
Tj = 12°C	Pdh	4,59	kW	Tj = 12°C	COPd	7,14	-
Tj = bivalent temperature	Pdh	23,57	kW	Tj = bivalent temperature	COPd	2,7	-
Tj = operating limit	Pdh	20,43	kW	Tj = operating limit	COPd	2,34	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	5,43	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	/77	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	14165	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima più freddo - Bassa temperatura (35°C) / Heating mode - Colder climate - Low temperature (35°C)**

Technical parameters	
Model(s):	IDOLA M 3.2 30T
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for low-temperature (35°C) application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	29	kW	Seasonal space heating energy efficiency	$\eta_s$	138	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	18,49	kW	Tj = -7°C	COPd	3,07	-
Tj = 2°C	Pdh	11,88	kW	Tj = 2°C	COPd	4,42	-
Tj = 7°C	Pdh	7,53	kW	Tj = 7°C	COPd	6,15	-
Tj = 12°C	Pdh	4,11	kW	Tj = 12°C	COPd	6,87	-
Tj = bivalent temperature	Pdh	19,93	kW	Tj = bivalent temperature	COPd	2,44	-
Tj = operating limit	Pdh	13,17	kW	Tj = operating limit	COPd	1,67	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	9,07	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	<sup>L</sup> WA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	<sup>Q</sup> HE	20390	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	wh	-	%
Daily electricity consumption	<sup>Q</sup> clec	-	kWh	Daily fuel consumption	<sup>Q</sup> fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 30T - Modo riscaldamento - Clima più caldo - Bassa temperatura (35°C) / Heating mode - Warmer climate - Low temperature (35°C)

Technical parameters							
Model(s):	IDOLA M 3.2 30T						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for low-temperature (35°C) application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	30	kW	Seasonal space heating energy efficiency	$\eta_s$	213	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	26,29	kW	Tj = 2°C	COPd	2,94	-
Tj = 7°C	Pdh	19,57	kW	Tj = 7°C	COPd	4,75	-
Tj = 12°C	Pdh	8,9	kW	Tj = 12°C	COPd	7,53	-
Tj = bivalent temperature	Pdh	19,57	kW	Tj = bivalent temperature	COPd	4,75	-
Tj = operating limit	Pdh	26,29	kW	Tj = operating limit	COPd	2,94	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0,9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,018	kW	Rated heat output (**)	Psup	10,43	kW
Standby mode	Psb	0,018	kW				
Thermostat-off mode	Pto	0,096	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0,000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	10650	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q <sub>HE</sub>	7540	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)**

Information requirements for comfort chillers							
Model(s):				IDOLA M 3.2 30T			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	29,5	kW	Seasonal space cooling energy efficiency	$\eta_{sc}$	177	%
Declared cooling capacity for part load at given outdoor temperature $T_j$				Declared energy efficiency ratio for part load at given outdoor temperature $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	29,5	kW	$T_j=+35^\circ\text{C}$	EERd	2,29	-
$T_j=+30^\circ\text{C}$	$P_{dc}$	21,2	kW	$T_j=+30^\circ\text{C}$	EERd	3,62	-
$T_j=+25^\circ\text{C}$	$P_{dc}$	13,5	kW	$T_j=+25^\circ\text{C}$	EERd	5,06	-
$T_j=+20^\circ\text{C}$	$P_{dc}$	6,0	kW	$T_j=+20^\circ\text{C}$	EERd	6,75	-
Degradation co-efficient for chillers (*)							
	$C_{dc}$	0,9	-				
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0,017	kW	Crankcase heater mode	$P_{CK}$	0,000	kW
Thermostat-off mode	$P_{TO}$	0,084	kW	Standby mode	$P_{SB}$	0,017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10650	$\text{m}^3/\text{h}$
Sound power level, indoors / outdoors	$L_{WA}$	-77	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x$ (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	$\text{m}^3/\text{h}$
GWP of the refrigerant	-	675	kg $\text{CO}_2$ eq (100years)				
Standard rating conditions used		Low temperature application					
Contact details		Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com					
(*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)**

Information requirements for comfort chillers							
Model(s):		IDOLA M 3.2 30T					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	30,8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	225	%
Declared cooling capacity for part load at given outdoor temperature $T_j$				Declared energy efficiency ratio for part load at given outdoor temperature $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	30,8	kW	$T_j=+35^\circ\text{C}$	EERd	3,79	-
$T_j=+30^\circ\text{C}$	$P_{dc}$	22,1	kW	$T_j=+30^\circ\text{C}$	EERd	5,06	-
$T_j=+25^\circ\text{C}$	$P_{dc}$	13,9	kW	$T_j=+25^\circ\text{C}$	EERd	6,33	-
$T_j=+20^\circ\text{C}$	$P_{dc}$	6,3	kW	$T_j=+20^\circ\text{C}$	EERd	7,01	-
Degradation co-efficient for chillers (*)	$C_{dc}$	0,9	-				
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0,017	kW	Crankcase heater mode	$P_{CK}$	0,000	kW
Thermosat-off mode	$P_{TO}$	0,084	kW	Standby mode	$P_{SB}$	0,017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10650	m <sup>3</sup> /h
Sound power level, indoors / outdoors	$L_{WA}$	-77	dB				
Emissions of nitrogen oxides (if applicable)	NOx (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m <sup>3</sup> /h
GWP of the refrigerant	-	675	kg CO <sub>2</sub> eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com						
(*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							





















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