



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. 02 - 11/2022



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
	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	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.ferrol.com						
(*) 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	ηs	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	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	21067	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
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.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 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	η_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	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	7,9	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 _{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	Q _{HE}	7180	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	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.ferrolis.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																			
Rated heat output (*)				Prated				22				kW																			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				Pd				19,73				kW															
Tj = 2°C				Pd				12,04				kW																			
Tj = 7°C				Pd				8,02				kW																			
Tj = 12°C				Pd				3,81				kW																			
Tj = bivalent temperature				Pd				19,73				kW																			
Tj = operating limit				Pd				20,34				kW																			
For air-to-water heat pumps: Tj = -15°C				Pd				-				kW																			
Bivalent temperature				Tbiv				-7				°C																			
Cycling interval capacity for heating				Pcyc				-				kW																			
Degradation co-efficient (**)				Cdh				0,9				--																			
Power consumption in modes other than active mode				Off mode				Poff				0,018				kW															
Standby mode				Psb				0,018				kW																			
Thermostat-off mode				Pto				0,096				kW																			
Crankcase heater mode				Pck				0,000				kW																			
Seasonal space heating energy efficiency				ηs				178				%																			
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				COPd				2,74				-															
Tj = 2°C				COPd				4,4				-																			
Tj = 7°C				COPd				6,24				-																			
Tj = 12°C				COPd				7				-																			
Tj = bivalent temperature				COPd				2,74				-																			
Tj = operating limit				COPd				2,35				-																			
For air-to-water heat pumps: Tj = -15°C				COPd				-				-																			
For air-to-water heat pumps: Operation limit temperature				TOL				-10				°C																			
Cycling interval efficiency				COPcyc				-				-																			
Heating water operating limit temperature				WTOL				60				°C																			
Supplementary heater				Rated heat output (**)				Psup				2,27				kW															
Type of energy input				Electrical																											
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				10180				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				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 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	ηs	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	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	14179	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.ferrol.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 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			
Rated heat output (*)				Prated				22				kW			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				Pd				kW			
Tj = 2°C				Pd				21,81				kW			
Tj = 7°C				Pd				14,08				kW			
Tj = 12°C				Pd				6,44				kW			
Tj = bivalent temperature				Pd				14,08				kW			
Tj = operating limit				Pd				21,81				kW			
For air-to-water heat pumps: Tj = -15°C				Pd				-				kW			
Bivalent temperature				Tbiv				7				°C			
Cycling interval capacity for heating				Pcyc				-				kW			
Degradation co-efficient (**)				Cdh				0,9				--			
Power consumption in modes other than active mode				Off mode				Poff				0,018 kW			
Standby mode				Psb				0,018				kW			
Thermostat-off mode				Pto				0,096				kW			
Crankcase heater mode				Pck				0,000				kW			
Seasonal space heating energy efficiency				ηs				234				%			
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				COPd				-			
Tj = 2°C				COPd				3,31				-			
Tj = 7°C				COPd				5,2				-			
Tj = 12°C				COPd				7,5				-			
Tj = bivalent temperature				COPd				5,2				-			
Tj = operating limit				COPd				3,31				-			
For air-to-water heat pumps: Tj = -15				COPd				-				-			
For air-to-water heat pumps: Operation limit temperature				TOL				2				°C			
Cycling interval efficiency				COPcyc				-				-			
Heating water operating limit temperature				WTOL				60				°C			
Supplementary heater				Rated heat output (**)				Psup				7,92 kW			
Type of energy input				Electrical											
Other items				Capacity control				variable				For air-to-water heat pumps: Rated air flow rate, outdoors			
Sound power level, indoors/outdoors				LWA				-				dB			
Annual energy consumption				QHE				4945				kWh			
For heat pump combination heater:				Declared load profile				-				Water heating energy efficiency			
Daily electricity consumption				Qelec				-				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.ferrolis.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		η _{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°C		P _{dc}	20,6	kW		T _j =+35°C		EERd	2,89	-
T _j =+30°C		P _{dc}	14,9	kW		T _j =+30°C		EERd	3,95	-
T _j =+25°C		P _{dc}	9,3	kW		T _j =+25°C		EERd	5,37	-
T _j =+20°C		P _{dc}	4,3	kW		T _j =+20°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	m³/h
Sound power level, indoors / outdoors		L _{WA}	-73	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		-	-	m³/h
Emissions of nitrogen oxides (if applicable)		NOx (**)	-	mg/kWh input GCV						
GWP of the refrigerant		-	675	kg 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 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 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	η _{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°C	P _{dc}	22,8	kW		T _j =+35°C	EERd	4,25	-
T _j =+30°C	P _{dc}	16,3	kW		T _j =+30°C	EERd	5,16	-
T _j =+25°C	P _{dc}	10,2	kW		T _j =+25°C	EERd	6,45	-
T _j =+20°C	P _{dc}	4,6	kW		T _j =+20°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	m³/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	-	-	m³/h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium 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 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 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	ηs	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	LWA	-75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	17204	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
Contact details	Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.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	η_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	LWA	-75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	24967	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	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	ηs	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	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	9,3	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	LWA	-75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	8218	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	Ferrolispa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolis.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	η_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	LWA	/75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	11489	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.ferrol.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											
Rated heat output (*)				Prated				26				kW											
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				Pd _h				15,91 kW											
				Tj = 2°C				Pd _h				10,1 kW											
				Tj = 7°C				Pd _h				6,3 kW											
				Tj = 12°C				Pd _h				4,03 kW											
				Tj = bivalent temperature				Pd _h				18,97 kW											
				Tj = operating limit				Pd _h				13,07 kW											
				For air-to-water heat pumps: Tj = -15°C				Pd _h				- kW											
				Bivalent temperature				T _{biv}				-12 °C											
				Cycling interval capacity for heating				P _{cyc}				- kW											
				Degradation co-efficient (**)				C _d				0,9 --											
Power consumption in modes other than active mode				Off mode				P _{off}				0,018 kW											
				Standby mode				P _{sb}				0,018 kW											
				Thermostat-off mode				P _{to}				0,096 kW											
				Crankcase heater mode				P _{ck}				0,000 kW											
				Seasonal space heating energy efficiency				η _s				143 %											
				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				COP _d				3,1 -							
								Tj = 2°C				COP _d				4,45 -							
								Tj = 7°C				COP _d				6,06 -							
								Tj = 12°C				COP _d				7,13 -							
								Tj = bivalent temperature				COP _d				2,36 -							
								Tj = operating limit				COP _d				1,67 -							
								For air-to-water heat pumps: Tj = -15				COP _d				- -							
								For air-to-water heat pumps: Operation limit temperature				TOL				-22 °C							
								Cycling interval efficiency				COP _{cyc}				- -							
								Heating water operating limit temperature				WTOL				60 °C							
				Supplementary heater				Rated heat output (**)				P _{sup}				7,03 kW							
								Type of energy input				Electrical											
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 _{WA}				- dB				For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				- - m³/h			
				Annual energy consumption				Q _{HE}				17421 kWh											
For heat pump combination heater:								Declared load profile				-				Water heating energy efficiency				w _h - %			
								Daily electricity consumption				Q _{elec} - kWh				Daily fuel consumption				Q _{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.ferrol.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	η_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	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	9,23	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 _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	5959	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	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.ferrolis.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	η _{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°C	P _{dc}	25,5	kW		T _j =+35°C	EERd	2,63	-	
T _j =+30°C	P _{dc}	18,5	kW		T _j =+30°C	EERd	3,79	-	
T _j =+25°C	P _{dc}	11,8	kW		T _j =+25°C	EERd	5,19	-	
T _j =+20°C	P _{dc}	5,6	kW		T _j =+20°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	m³/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	-	-	m³/h	
GWP of the refrigerant	-	675	kg CO ₂ 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		η _{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°C		P _{dc}	26,8	kW	T _j =+35°C		EERd	4,04	-
T _j =+30°C		P _{dc}	19,4	kW	T _j =+30°C		EERd	5,21	-
T _j =+25°C		P _{dc}	12,1	kW	T _j =+25°C		EERd	6,23	-
T _j =+20°C		P _{dc}	5,9	kW	T _j =+20°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	m³/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		-	-	m³/h
GWP of the refrigerant		-	675	kg CO ₂ eq (100years)					
Standard rating conditions used			Medium 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 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	η_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	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	19316	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.ferrol.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	η_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	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 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	ηs	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	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	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	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	9580	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	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 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	η_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	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	14165	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 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	η_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	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	20390	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.ferrol.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 - 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																			
Rated heat output (*)				Prated				30				kW																			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				Pd				-				kW															
Tj = 2°C				Pd				26,29				kW																			
Tj = 7°C				Pd				19,57				kW																			
Tj = 12°C				Pd				8,9				kW																			
Tj = bivalent temperature				Pd				19,57				kW																			
Tj = operating limit				Pd				26,29				kW																			
For air-to-water heat pumps: Tj = -15°C				Pd				-				kW																			
Bivalent temperature				Tbiv				7				°C																			
Cycling interval capacity for heating				Pcyc				-				kW																			
Degradation co-efficient (**)				Cdh				0,9				--																			
Power consumption in modes other than active mode				Off mode				Poff				0,018				kW															
Standby mode				Psb				0,018				kW																			
Thermostat-off mode				Pto				0,096				kW																			
Crankcase heater mode				Pck				0,000				kW																			
Seasonal space heating energy efficiency				ηs				213				%																			
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C				COPd				-				-															
Tj = 2°C				COPd				2,94				-																			
Tj = 7°C				COPd				4,75				-																			
Tj = 12°C				COPd				7,53				-																			
Tj = bivalent temperature				COPd				4,75				-																			
Tj = operating limit				COPd				2,94				-																			
For air-to-water heat pumps: Tj = -15				COPd				-				-																			
For air-to-water heat pumps: Operation limit temperature				TOL				2				°C																			
Cycling interval efficiency				COPcyc				-				-																			
Heating water operating limit temperature				WTOL				60				°C																			
Supplementary heater				Rated heat output (**)				Psup				10,43				kW															
Type of energy input				Electrical																											
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				-				dB				For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-				-				m³/h			
Annual energy consumption				QHE				7540				kWh																			
For heat pump combination heater:								Declared load profile				-				Water heating energy efficiency				ηwh				-				%			
Daily electricity consumption				Qelec				-				kWh				Daily fuel consumption				Qfuel				-				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.ferrolis.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	η _{s,c}	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°C	P _{dc}	29,5	kW		T _j =+35°C	EERd	2,29	-
T _j =+30°C	P _{dc}	21,2	kW		T _j =+30°C	EERd	3,62	-
T _j =+25°C	P _{dc}	13,5	kW		T _j =+25°C	EERd	5,06	-
T _j =+20°C	P _{dc}	6,0	kW		T _j =+20°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
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	m³/h
Sound power level, indoors / outdoors	L _{WA}	-77	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
GWP of the refrigerant	-	675	kg 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 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 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	η _{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°C	P _{dc}	30,8	kW		T _j =+35°C	EERd	3,79	-
T _j =+30°C	P _{dc}	22,1	kW		T _j =+30°C	EERd	5,06	-
T _j =+25°C	P _{dc}	13,9	kW		T _j =+25°C	EERd	6,33	-
T _j =+20°C	P _{dc}	6,3	kW		T _j =+20°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	m³/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	-	-	m³/h
GWP of the refrigerant	-	675	kg CO ₂ 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.								

TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

IDOLA M 3.2 Mod. 22T - Prestazioni riscaldamento / Heating capacity

Tw_out °C	°DB/WB °C*	Heating Capacity [W]						COP					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
25	-25	/	12.53	11.23	8.67	6.14	3.76	/	2.37	2.40	2.46	2.54	2.68
	-20	/	14.83	13.30	10.26	7.28	4.45	/	2.63	2.67	2.79	2.85	2.97
	-15	/	17.44	15.64	12.08	8.56	5.25	/	2.99	3.04	3.21	3.29	3.43
	-10	/	20.39	18.28	14.12	10.02	6.14	/	2.93	3.08	3.23	3.31	3.48
	-7	/	22.33	20.03	15.47	10.98	6.74	/	3.23	3.42	3.55	3.67	3.84
	-5	/	22.11	19.83	15.32	10.87	6.93	/	3.11	3.30	3.48	3.58	3.85
	-2	22.84	22.17	19.89	15.38	10.92	7.34	3.10	3.19	3.34	3.47	3.54	3.81
	0	23.13	22.43	20.13	15.56	11.05	7.61	3.42	3.49	3.66	3.77	3.84	4.12
	2	23.59	22.83	20.50	15.86	11.27	7.94	3.83	3.91	4.14	4.27	4.36	4.53
	5	24.67	23.14	20.78	16.10	11.46	9.18	4.53	4.59	4.79	4.91	4.95	5.31
	7	25.43	23.25	20.89	16.19	11.55	9.71	5.05	5.10	5.22	5.39	5.46	5.73
	10	25.86	23.44	21.06	16.34	11.65	10.56	5.54	5.62	5.76	5.91	5.98	6.00
	12	26.53	23.37	21.01	16.30	11.84	/	5.61	5.68	5.84	5.98	6.05	/
	15	27.54	23.27	20.93	16.23	12.11	/	5.71	5.77	5.97	6.07	6.15	/
	20	29.04	23.03	20.70	16.09	13.85	/	5.79	5.84	6.08	6.19	6.21	/
	25	28.38	23.31	20.95	16.29	15.80	/	5.82	5.88	6.14	6.23	6.24	/
	30	/	/	/	/	/	/	/	/	/	/	/	/
30	-25	/	12.55	11.25	8.68	6.14	3.71	/	2.17	2.20	2.27	2.35	2.46
	-20	/	14.84	13.30	10.26	7.27	4.39	/	2.39	2.43	2.55	2.61	2.69
	-15	/	17.43	15.63	12.06	8.55	5.17	/	2.68	2.73	2.90	2.98	3.11
	-10	20.36	20.08	18.00	13.90	9.86	6.05	2.65	2.70	2.85	3.00	3.07	3.23
	-7	22.29	21.67	19.43	15.01	10.65	6.63	2.81	2.87	3.07	3.20	3.31	3.47
	-5	21.92	21.60	19.38	14.97	10.62	6.82	2.80	2.87	3.06	3.25	3.35	3.60
	-2	22.63	21.96	19.70	15.23	10.81	7.22	2.88	2.97	3.13	3.26	3.33	3.58
	0	22.90	22.20	19.92	15.40	10.93	7.48	3.15	3.22	3.39	3.50	3.56	3.83
	2	23.32	22.56	20.25	15.67	11.13	7.80	3.38	3.45	3.69	3.82	3.91	3.98
	5	24.21	22.70	20.39	15.79	11.24	9.02	4.10	4.15	4.35	4.47	4.51	4.86
	7	25.06	22.91	20.58	15.95	11.38	9.54	4.61	4.70	4.82	4.98	5.06	5.31
	10	25.46	23.07	20.73	16.08	11.47	10.37	4.95	5.03	5.16	5.32	5.38	5.40
	12	26.11	22.99	20.66	16.03	11.63	/	5.02	5.09	5.25	5.39	5.46	/
	15	27.09	22.86	20.57	15.94	11.88	/	5.13	5.19	5.39	5.49	5.57	/
	20	28.53	22.60	20.31	15.79	13.57	/	5.23	5.28	5.51	5.62	5.64	/
	25	27.84	22.84	20.54	15.97	15.47	/	5.26	5.32	5.59	5.67	5.68	/
	30	29.26	22.61	20.38	17.61	/	/	5.60	5.69	5.71	5.73	5.73	/
35	-25	/	12.49	11.19	8.63	6.11	3.71	/	2.01	2.04	2.11	2.19	2.30
	-20	/	14.75	13.22	10.20	7.22	4.40	/	2.18	2.23	2.35	2.41	2.49
	-15	/	17.30	15.51	11.97	8.48	5.17	/	2.41	2.46	2.63	2.72	2.84
	-10	20.19	19.91	17.85	13.78	9.77	6.04	2.45	2.50	2.66	2.81	2.88	3.04
	-7	21.79	21.00	19.25	14.86	10.54	6.62	2.54	2.60	2.79	2.92	3.04	3.20
	-5	21.70	21.39	19.18	14.82	10.51	6.70	2.61	2.68	2.87	3.05	3.15	3.41
	-2	22.39	21.72	19.48	15.05	10.68	6.98	2.71	2.80	2.96	3.08	3.16	3.40
	0	22.64	21.95	19.69	15.22	10.80	7.18	2.92	2.99	3.16	3.26	3.33	3.59
	2	23.02	22.00	19.98	15.46	10.98	7.65	3.03	3.10	3.33	3.47	3.56	3.63
	5	23.34	22.34	20.06	15.54	11.05	8.83	3.74	3.79	4.00	4.11	4.16	4.56
	7 *	24.14	22.00	20.24	15.68	11.19	9.33	4.32	4.40	4.52	4.69	4.76	5.06
	10	24.45	22.67	20.36	15.79	11.26	10.14	4.45	4.53	4.67	4.82	4.89	5.18
	12	25.31	22.57	20.29	15.73	11.41	/	4.57	4.63	4.79	4.93	5.00	/
	15	26.59	22.42	20.17	15.63	11.63	/	4.74	4.80	5.00	5.11	5.18	/
	20	27.97	22.13	19.89	15.46	13.28	/	4.90	4.95	5.18	5.30	5.31	/
	25	27.24	22.34	20.08	15.61	15.12	/	4.96	5.02	5.28	5.37	5.38	/
	30	28.60	22.07	19.90	17.19	/	/	5.20	5.28	5.30	5.32	5.32	/
40	-25	/	14.04	12.58	9.71	6.87	4.01	/	1.92	1.99	2.11	2.17	2.29
	-20	/	16.45	14.75	11.38	8.06	4.71	/	2.11	2.22	2.39	2.47	2.57
	-15	19.00	18.73	16.80	12.97	9.19	5.50	2.32	2.32	2.47	2.62	2.69	2.84
	-10	20.78	20.19	18.10	13.98	9.91	6.02	2.39	2.39	2.60	2.73	2.85	3.01
	-5	20.73	20.42	18.32	14.15	10.04	6.18	2.49	2.56	2.76	2.94	3.04	3.21
	-2	21.55	20.89	18.74	14.48	10.27	6.53	2.53	2.62	2.86	2.98	3.06	3.23
	0	21.77	21.09	18.92	14.62	10.38	6.77	2.71	2.78	3.03	3.14	3.20	3.36
	2	22.86	22.09	19.83	15.34	10.90	7.15	2.84	2.91	3.12	3.26	3.35	3.42
	5	22.93	22.44	20.15	15.60	11.09	8.76	3.48	3.53	3.74	3.86	3.90	4.12
	7	23.70	22.65	20.34	15.75	11.24	9.25	3.91	3.99	4.15	4.32	4.39	4.49
	10	23.98	22.81	20.49	15.89	11.33	9.93	4.04	4.12	4.32	4.48	4.54	4.56
	12	24.81	22.74	20.43	15.85	11.34	/	4.13	4.20	4.40	4.54	4.61	/
	15	26.05	22.64	20.34	15.78	11.36	/	4.26	4.32	4.52	4.63	4.71	/
	20	27.35	22.43	20.15	15.67	12.95	/	4.51	4.56	4.69	4.80	4.84	/
	25	26.59	22.73	20.43	15.88	14.74	/	4.63	4.69	4.80	4.88	4.90	/
	30	28.17	22.59	20.30	16.74	/	/	4.98	5.04	5.08	5.10	5.10	/
	35	28.04	22.64	20.35	18.99	/	/	5.06	5.11	5.13	5.16	5.16	/

Tw_out °C	°DB/WB °C*	Heating Capacity [W]						COP					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
45	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	16.22	14.54	11.22	7.94	4.67	/	1.97	2.08	2.25	2.33	2.43
	-10	/	18.61	16.68	12.88	9.13	5.44	/	2.12	2.26	2.42	2.49	2.64
	-7	/	20.00	20.31	15.67	11.10	6.33	/	2.20	2.41	2.54	2.66	2.82
	-5	20.27	19.96	17.90	13.82	9.80	6.50	2.28	2.35	2.55	2.74	2.84	3.01
	-2	21.04	20.40	18.29	14.13	10.02	6.44	2.36	2.45	2.69	2.82	2.89	3.07
	0	21.72	21.04	18.87	14.58	10.34	6.44	2.49	2.56	2.81	2.92	2.99	3.14
	2	22.42	22.00	18.94	14.65	10.40	7.29	2.53	2.60	2.81	2.95	3.04	3.10
	5	22.70	22.21	19.94	15.44	10.98	8.32	3.04	3.09	3.30	3.42	3.46	3.69
	7	23.22	22.00	20.39	15.78	11.22	8.79	3.31	3.40	3.56	3.73	3.80	3.96
	10	23.47	22.32	20.04	15.54	11.08	9.69	3.54	3.62	3.82	3.98	4.04	4.06
	12	24.26	22.23	19.97	15.49	11.07	/	3.61	3.68	3.89	4.02	4.09	/
	15	25.45	22.10	19.86	15.40	11.07	/	3.72	3.79	3.99	4.10	4.17	/
	20	26.68	22.80	20.51	15.89	12.61	/	3.93	3.98	4.11	4.22	4.27	/
	25	25.89	22.11	19.87	15.45	14.33	/	4.17	4.23	4.33	4.42	4.44	/
	30	27.11	21.93	19.72	16.25	16.25	/	4.40	4.46	4.50	4.52	4.52	/
	35	27.21	21.98	19.75	18.41	18.41	/	4.65	4.70	4.72	4.75	4.75	/
50	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	15.72	14.09	10.87	7.70	4.57	/	1.74	1.87	1.96	2.01	2.08
	-10	/	18.01	16.14	12.46	8.83	5.32	/	1.78	1.95	2.07	2.13	2.24
	-7	19.66	19.37	17.37	13.41	9.50	5.94	1.89	1.90	2.14	2.27	2.33	2.43
	-5	20.06	19.76	17.72	13.68	9.70	6.10	1.95	1.98	2.21	2.35	2.46	2.61
	-2	20.88	20.23	18.14	14.01	9.93	6.17	2.05	2.07	2.33	2.44	2.57	2.74
	0	21.73	21.04	18.87	14.57	10.34	6.38	2.16	2.21	2.46	2.60	2.70	2.84
	2	22.40	21.24	19.05	14.73	10.46	6.94	2.32	2.32	2.60	2.75	2.87	3.02
	5	22.46	21.98	19.74	15.28	10.86	8.24	2.56	2.61	2.85	2.95	3.06	3.24
	7	22.69	22.18	19.92	15.42	10.96	8.40	2.93	3.02	3.19	3.24	3.30	3.46
	10	22.90	22.34	20.06	15.55	11.08	9.01	3.17	3.21	3.43	3.48	3.54	3.66
	12	23.66	22.28	20.01	15.51	11.06	9.51	3.24	3.28	3.50	3.59	3.65	3.76
	15	24.80	22.18	19.92	15.45	11.01	10.27	3.34	3.40	3.61	3.76	3.83	3.94
	20	24.36	22.15	19.92	15.44	12.23	11.68	3.49	3.58	3.73	3.86	3.89	3.99
	25	25.12	22.33	20.06	15.60	13.88	13.25	3.57	3.62	3.86	3.99	4.01	4.01
	30	26.26	21.23	19.08	15.72	15.72	15.01	3.73	3.77	3.94	4.00	4.00	4.05
	35	26.31	21.25	19.09	17.79	17.79	16.98	3.86	3.86	4.24	4.26	4.26	4.33
55	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	/	/	/	/	/	/	/	/	/	/	/
	-10	/	17.70	15.87	12.24	8.67	4.63	/	1.53	1.70	1.82	1.88	1.99
	-7	/	18.00	18.56	14.31	10.13	5.06	/	1.55	1.79	1.92	1.98	2.08
	-5	19.69	19.39	17.38	13.42	9.51	5.69	1.61	1.65	1.87	2.02	2.13	2.27
	-2	20.09	19.46	17.45	13.48	9.55	6.00	1.72	1.73	1.99	2.11	2.24	2.40
	0	21.09	20.76	18.61	14.37	10.19	6.20	1.81	1.85	2.11	2.24	2.35	2.49
	2	22.00	22.00	20.92	16.16	11.46	6.89	1.90	1.90	2.18	2.33	2.46	2.58
	5	22.81	22.34	20.05	15.51	11.02	7.84	2.31	2.35	2.59	2.70	2.80	2.98
	7	22.60	22.00	19.84	15.36	10.91	8.27	2.55	2.65	2.81	2.87	2.93	3.09
	10	22.28	22.28	20.00	15.50	11.04	9.14	2.79	2.83	3.05	3.10	3.16	3.19
	12	22.74	22.23	19.96	15.47	11.03	9.65	2.87	2.91	3.13	3.22	3.28	3.32
	15	23.44	22.17	19.91	15.43	11.00	10.41	2.99	3.05	3.26	3.41	3.49	3.51
	20	23.68	22.19	19.96	15.46	11.82	/	3.16	3.25	3.40	3.53	3.56	/
	25	24.27	22.42	20.15	15.66	13.39	/	3.35	3.41	3.64	3.78	3.80	/
	30	24.95	22.08	19.91	15.42	14.90	/	3.49	3.54	3.70	3.77	3.79	/
	35	24.21	21.97	19.81	17.10	17.10	/	3.79	3.81	4.18	4.20	4.20	/
60	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	/	/	/	/	/	/	/	/	/	/	/
	-10	/	15.77	14.14	10.91	7.73	4.93	/	1.40	1.53	1.64	1.76	1.92
	-7	/	17.18	15.41	11.89	8.43	5.22	/	1.42	1.59	1.73	1.85	2.02
	-5	/	17.61	15.79	12.19	8.64	5.52	/	1.48	1.66	1.77	1.90	2.06
	-2	18.20	17.88	16.04	12.39	8.78	5.81	1.59	1.59	1.76	1.87	1.99	2.15
	0	19.22	18.55	16.63	12.85	9.11	6.01	1.71	1.71	1.88	2.01	2.14	2.30
	2	20.18	19.45	17.45	13.49	9.57	6.53	1.79	1.79	2.00	2.10	2.22	2.32
	5	21.28	20.82	18.68	14.45	10.27	7.74	2.19	2.19	2.34	2.42	2.53	2.73
	7	21.45	20.96	18.82	14.56	10.34	7.89	2.44	2.44	2.54	2.59	2.69	2.89
	10	21.05	20.51	18.41	14.27	10.17	8.82	2.66	2.66	2.77	2.81	2.92	3.01
	12	21.20	20.62	18.52	14.35	10.23	9.31	2.72	2.72	2.85	2.92	3.03	3.13
	15	21.42	20.79	18.67	14.48	10.32	10.03	2.80	2.80	2.99	3.10	3.21	3.30
	20	21.67	20.25	18.58	14.39	11.37	11.37	3.01	3.01	3.12	3.21	3.35	3.59
	25	20.33	19.51	17.89	13.90	12.86	12.86	3.23	3.23	3.33	3.62	3.65	3.81
	30	19.22	19.22	17.03	14.51	14.51	14.51	3.37	3.37	3.48	3.78	3.78	3.87

TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

IDOLA M 3.2 Mod. 26T - Prestazioni riscaldamento / Heating capacity

Tw_out °C	DB/WB °C	Heating Capacity [W]						COP					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
25	-25	/	12,91	11,57	8,92	6,31	3,85	/	2,35	2,39	2,45	2,53	2,60
	-20	/	15,28	13,69	10,56	7,48	4,57	/	2,60	2,65	2,77	2,83	2,86
	-15	/	17,83	15,98	12,33	8,74	5,33	/	2,97	3,02	3,19	3,27	3,32
	-10	/	20,84	18,69	14,42	10,23	6,24	/	2,90	3,05	3,21	3,28	3,34
	-7	/	22,48	20,15	15,56	11,04	6,72	/	3,13	3,32	3,45	3,57	3,62
	-5	23,11	22,82	20,46	15,80	11,21	6,91	2,96	3,03	3,22	3,41	3,51	3,62
	-2	23,92	23,92	21,45	16,57	11,75	7,24	3,04	3,12	3,28	3,41	3,48	3,59
	0	24,93	24,93	22,36	17,27	12,26	7,53	3,25	3,32	3,49	3,60	3,67	3,77
	2	26,40	26,05	23,36	18,05	12,80	8,06	3,61	3,69	3,92	4,05	4,14	4,21
	5	28,19	26,31	23,62	18,29	13,01	9,18	4,22	4,27	4,48	4,59	4,64	5,31
	7	28,84	26,77	24,04	18,62	13,24	9,71	4,73	4,78	4,90	5,07	5,14	5,73
	10	29,33	26,45	23,76	18,42	13,11	10,56	5,33	5,41	5,54	5,70	5,77	6,00
	12	30,24	26,61	23,90	18,54	13,19	11,18	5,41	5,48	5,64	5,78	5,85	6,06
	15	31,61	26,84	24,12	18,71	13,32	12,11	5,52	5,59	5,78	5,89	5,97	6,15
	20	31,44	26,58	23,91	18,54	13,85		5,61	5,66	5,90	6,01	6,21	
	25	31,23	26,24	23,59	18,34	15,80		5,68	5,74	6,00	6,09	6,24	
30	30	/	/	/	/	/	/	/	/	/	/	/	/
	35	/	/	/	/	/	/	/	/	/	/	/	/
	-25	/	12,77	11,44	8,82	6,24	3,77	/	2,16	2,19	2,25	2,33	2,40
	-20	/	15,10	13,53	10,43	7,39	4,47	/	2,36	2,40	2,53	2,59	2,62
	-15	/	17,74	15,90	12,26	8,69	5,26	/	2,66	2,71	2,88	2,96	3,01
	-10	/	20,71	18,56	14,33	10,15	6,15	/	2,67	2,82	2,97	3,04	3,11
	-7	/	22,32	20,01	15,44	10,95	6,61	/	2,77	2,97	3,10	3,21	3,27
	-5	/	22,64	20,30	15,67	11,11	6,80	/	2,80	2,99	3,17	3,27	3,38
	-2	/	23,72	21,27	16,42	11,65	7,12	/	2,91	3,07	3,19	3,27	3,38
	0	/	24,71	22,16	17,12	12,14	7,40	/	3,05	3,22	3,33	3,40	3,49
	2	26,16	25,80	23,14	17,88	12,68	7,92	3,16	3,23	3,47	3,60	3,69	3,76
	5	28,36	26,46	23,75	18,38	13,07	9,02	3,78	3,84	4,04	4,16	4,20	4,86
	7	28,47	26,41	23,71	18,36	13,06	9,54	4,29	4,38	4,50	4,66	4,74	5,31
	10	28,91	26,63	23,92	18,53	13,19	10,37	4,73	4,81	4,95	5,11	5,17	5,40
	12	29,77	26,54	23,84	18,48	13,16	10,97	4,82	4,89	5,05	5,19	5,25	5,47
	15	31,05	26,40	23,72	18,40	13,12	11,88	4,94	5,01	5,20	5,31	5,39	5,57
35	20	31,20	26,36	23,71	18,38	13,57	/	5,05	5,10	5,33	5,44	5,64	/
	25	31,25	26,25	23,60	18,35	15,47	/	5,12	5,18	5,44	5,53	5,68	/
	30	30,93	26,51	23,83	18,53	17,61	/	5,35	5,43	5,46	5,48	5,73	/
	35	/	/	/	/	/	/	/	/	/	/	/	/
	-25	/	12,71	11,39	8,78	6,21	3,72	/	2,00	2,03	2,10	2,18	2,25
	-20	/	15,01	13,45	10,37	7,34	4,40	/	2,16	2,20	2,33	2,39	2,42
	-15	/	17,62	15,79	12,18	8,63	5,18	/	2,39	2,44	2,61	2,70	2,74
	-10	/	20,55	18,42	14,21	10,07	6,05	/	2,48	2,63	2,78	2,85	2,91
	-7	/	22,00	20,99	16,20	11,48	6,91	/	2,50	2,69	2,82	2,94	3,00
	-5	/	22,74	20,38	15,73	11,15	6,69	/	2,61	2,80	2,98	3,08	3,19
	-2	/	23,49	21,06	16,26	11,53	7,00	/	2,74	2,89	3,02	3,10	3,21
	0	/	24,05	21,56	16,65	11,81	7,12	/	2,82	2,99	3,10	3,16	3,26
	2	25,59	24,00	22,63	17,48	12,40	7,61	2,81	2,88	3,11	3,25	3,34	3,41
	5	27,72	25,84	23,19	17,95	12,76	8,83	3,42	3,48	3,68	3,80	3,84	4,56
	7 *	27,90	26,00	23,68	18,33	13,03	9,33	3,99	4,08	4,20	4,37	4,41	5,06
	10	28,45	26,76	24,03	18,61	13,25	10,14	4,24	4,32	4,45	4,61	4,68	5,18
40	12	29,30	26,69	23,98	18,58	13,23	10,73	4,37	4,43	4,59	4,73	4,78	5,18
	15	30,58	26,59	23,89	18,53	13,21	11,63	4,56	4,62	4,82	4,93	5,00	5,18
	20	30,96	26,38	23,70	18,39	13,28	/	4,72	4,77	5,00	5,12	5,31	/
	25	30,91	26,11	23,47	18,25	15,12	/	4,82	4,88	5,14	5,23	5,38	/
	30	30,94	26,20	23,55	18,31	17,19	/	4,94	5,03	5,05	5,07	5,32	/
	35	30,76	26,32	23,66	19,52	19,52	/	5,38	5,41	5,43	5,60	5,60	/
	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	14,06	12,60	9,72	6,88	4,04	/	1,88	1,95	2,08	2,14	2,17
	-15	/	16,49	14,78	11,40	8,07	4,74	/	2,10	2,21	2,38	2,46	2,51
	-10	/	19,21	17,22	13,29	9,42	5,54	/	2,31	2,45	2,61	2,68	2,74
	-7	/	21,00	18,83	14,53	10,30	6,06	/	2,34	2,55	2,68	2,80	2,86
	-5	21,57	21,28	19,08	14,73	10,44	6,23	2,36	2,39	2,59	2,78	2,88	2,99
	-2	22,45	22,45	20,13	15,54	11,02	6,59	2,40	2,42	2,66	2,78	2,86	2,97
	0	23,75	23,75	21,30	16,44	11,66	6,98	2,44	2,51	2,76	2,87	2,94	3,04
	2	25,12	24,77	22,21	17,15	12,16	7,44	2,59	2,66	2,87	3,01	3,10	3,17
	5	27,07	25,65	23,03	17,82	12,66	8,76	3,40	3,46	3,67	3,78	3,83	4,12
45	7	26,89	26,39	23,69	18,33	13,03	9,25	3,61	3,69	3,85	4,02	4,09	4,49
	10	27,94	26,26	23,59	18,26	12,99	9,93	3,78	3,86	4,06	4,22	4,28	4,56
	12	28,88	26,31	23,63	18,31	13,04	10,50	3,89	3,96	4,16	4,30	4,37	4,62
	15	30,30	26,38	23,70	18,38	13,10	11,36	4,06	4,12	4,33	4,44	4,51	4,71
	20	31,17	26,18	23,52	18,25	12,95	/	4,32	4,37	4,49	4,61	4,84	/
	25	30,20	26,36	23,71	18,38	14,74	/	4,39	4,45	4,56	4,64	4,90	/
	30	30,17	26,32	23,66	18,40	16,74	/	4,75	4,82	4,86	4,88	5,10	/
	35	30,43	26,23	23,57	18,99	18,99	/	4,95	5,00	5,02	5,16	5,16	/

Tw out °C°	°DB/WB °C°	Heating Capacity [W]						COP					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
45	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	16,60	14,88	11,47	8,12	4,75	/	1,95	2,06	2,23	2,32	2,36
	-10	/	19,32	17,32	13,36	9,46	5,54	/	2,10	2,25	2,40	2,48	2,54
	-7	/	21,00	20,82	16,05	11,37	6,76	/	2,15	2,36	2,49	2,61	2,67
	-5	23,50	23,18	20,78	16,02	11,35	6,82	2,17	2,19	2,39	2,58	2,68	2,78
	-2	23,62	23,29	20,88	16,11	11,42	6,93	2,20	2,25	2,49	2,62	2,69	2,80
	0	24,64	24,29	21,77	16,80	11,91	7,33	2,23	2,30	2,55	2,65	2,72	2,82
	2	25,08	24,00	23,42	18,08	12,81	8,08	2,28	2,35	2,56	2,70	2,79	2,85
	5	27,00	26,32	23,62	18,26	12,97	8,32	2,97	3,02	3,23	3,35	3,39	3,69
	7	27,08	26,00	23,86	18,46	13,11	8,79	3,02	3,10	3,26	3,43	3,50	3,98
	10	27,91	26,27	23,59	18,26	12,99	9,69	3,27	3,35	3,55	3,71	3,75	4,06
	12	28,47	26,21	23,53	18,23	12,98	10,24	3,37	3,44	3,65	3,79	3,83	4,11
	15	29,32	26,11	23,45	18,18	12,96	11,07	3,53	3,59	3,79	3,90	3,96	4,17
	20	30,43	26,30	23,63	18,33	13,07	12,61	3,74	3,79	3,92	4,03	4,06	4,27
	25	30,28	26,33	23,69	18,36	14,33	14,33	3,93	3,99	4,09	4,18	4,44	4,44
30	30,34	26,09	23,45	18,23	16,25	16,25	4,17	4,24	4,28	4,30	4,52	4,52	
35	30,68	26,03	23,40	18,41	18,41	18,41	4,55	4,59	4,61	4,63	4,75	4,75	
50	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	16,26	14,57	11,23	7,95	4,61	/	1,72	1,85	1,94	1,99	2,03
	-10	/	18,89	16,93	13,06	9,25	5,36	/	1,74	1,92	2,04	2,10	2,16
	-7	/	21,34	19,12	14,75	10,44	6,11	/	1,87	2,11	2,24	2,30	2,35
	-5	21,90	21,60	19,35	14,93	10,57	6,27	1,89	1,91	2,13	2,28	2,39	2,49
	-2	22,75	22,43	20,10	15,51	10,99	6,61	1,99	2,01	2,27	2,38	2,52	2,65
	0	23,71	23,37	20,95	16,16	11,45	7,00	2,08	2,12	2,38	2,51	2,62	2,73
	2	24,69	24,33	21,81	16,83	11,92	7,46	2,30	2,30	2,58	2,73	2,85	2,98
	5	26,45	26,00	23,33	18,04	12,81	8,24	2,36	2,41	2,65	2,75	2,85	3,24
	7	26,80	26,31	23,61	18,26	12,97	8,40	2,73	2,82	2,99	3,05	3,10	3,46
	10	27,26	26,16	23,49	18,18	12,93	9,43	3,10	3,14	3,36	3,42	3,47	3,57
	12	27,85	26,18	23,51	18,20	12,96	9,96	3,17	3,21	3,43	3,52	3,58	3,69
	15	28,74	26,21	23,54	18,24	13,00	10,75	3,27	3,33	3,54	3,69	3,76	3,85
	20	29,62	26,32	23,64	18,33	13,07	12,23	3,39	3,48	3,64	3,77	3,79	3,89
	25	29,70	26,25	23,61	18,29	13,88	/	3,49	3,54	3,78	3,91	4,01	/
30	29,41	26,26	23,60	18,35	15,72	/	3,67	3,72	3,88	3,95	4,00	/	
35	29,68	26,31	23,64	18,38	17,79	/	3,78	3,82	4,15	4,17	4,26	/	
55	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	/	/	/	/	/	/	/	/	/	/	/
	-10	/	18,59	16,66	12,84	9,09	5,23	/	1,50	1,67	1,79	1,85	1,91
	-7	/	20,00	18,17	14,01	9,92	5,71	/	1,52	1,76	1,89	1,95	2,00
	-5	/	21,11	18,92	14,58	10,33	5,98	/	1,57	1,79	1,94	2,05	2,16
	-2	/	22,56	20,22	15,59	11,04	6,38	/	1,68	1,93	2,05	2,18	2,31
	0	/	23,84	21,36	16,47	11,67	6,75	/	1,77	2,03	2,16	2,27	2,37
	2	/	24,00	23,44	18,08	12,80	7,49	/	1,88	2,16	2,31	2,44	2,56
	5	26,58	26,13	23,44	18,11	12,86	7,84	2,10	2,15	2,39	2,49	2,59	2,98
	7	26,61	26,00	23,45	18,13	12,87	8,27	2,35	2,45	2,61	2,67	2,73	3,09
	10	26,76	26,22	23,53	18,20	12,94	9,14	2,72	2,76	2,98	3,03	3,09	3,19
	12	27,25	26,17	23,49	18,17	12,92	9,65	2,80	2,84	3,06	3,15	3,21	3,32
	15	27,99	26,09	23,43	18,13	12,90	10,41	2,92	2,98	3,19	3,34	3,42	3,51
	20	29,00	26,03	23,38	18,13	12,92	11,82	3,06	3,15	3,31	3,44	3,47	3,56
	25	29,45	26,02	23,40	18,13	13,39	/	3,27	3,33	3,56	3,67	3,80	/
30	28,38	25,34	22,76	17,70	14,90	/	3,44	3,48	3,65	3,80	3,79	/	
35	28,59	25,32	22,75	17,69	17,10	/	3,72	3,76	4,09	4,13	4,20	/	
60	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	/	/	/	/	/	/	/	/	/	/	/
	-10	/	17,74	15,90	12,26	8,68	4,93	/	1,37	1,50	1,61	1,72	1,86
	-7	19,13	18,86	16,90	13,03	9,23	5,32	1,39	1,39	1,56	1,70	1,82	1,96
	-5	19,89	19,60	17,57	13,55	9,59	5,63	1,40	1,41	1,59	1,69	1,82	1,98
	-2	20,61	20,31	18,20	14,04	9,94	5,93	1,52	1,54	1,70	1,81	1,93	2,06
	0	20,96	20,65	18,51	14,28	10,11	6,12	1,58	1,63	1,79	1,93	2,06	2,19
	2	21,78	21,45	19,23	14,84	10,50	6,51	1,71	1,77	1,98	2,08	2,20	2,31
	5	25,63	25,19	22,60	17,46	12,39	7,74	1,91	1,99	2,14	2,22	2,33	2,73
	7	25,86	25,38	22,77	17,60	12,49	7,89	2,21	2,24	2,34	2,39	2,49	2,89
	10	25,76	25,24	22,65	17,52	12,45	8,82	2,55	2,60	2,70	2,74	2,85	3,01
	12	25,98	25,18	22,60	17,49	12,43	9,31	2,61	2,65	2,78	2,85	2,96	3,13
	15	26,30	25,10	22,54	17,46	12,40	10,03	2,69	2,73	2,92	3,03	3,14	3,30
	20	27,04	25,65	23,04	17,85	12,73	11,37	2,87	2,92	3,03	3,12	3,19	3,59
	25	25,79	24,98	22,47	17,40	12,86	/	3,12	3,15	3,25	3,45	3,81	/
30	/	25,40	22,85	17,76	14,51	/	/	3,24	3,36	3,60	3,87	/	
35	/	/	/	/	/	/	/	/	/	/	/	/	

TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

IDOLA M 3.2 Mod. 30T - Prestazioni riscaldamento / Heating capacity

Tw_out °C	*DB/WB °C*	Heating Capacity [W]						COP					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
25	-25	/	12,91	11,57	8,92	6,31	3,85	/	2,32	2,35	2,42	2,50	2,60
	-20	/	15,28	13,69	10,56	7,48	4,57	/	2,53	2,57	2,70	2,75	2,86
	-15	/	17,83	15,98	12,33	8,74	5,33	/	2,92	2,97	3,14	3,22	3,32
	-10	/	20,84	18,69	14,42	10,23	6,24	/	2,85	3,00	3,15	3,22	3,34
	-7	/	22,48	20,15	15,56	11,04	6,72	/	3,08	3,27	3,40	3,52	3,62
	-5	/	23,11	20,72	16,00	11,35	6,91	/	2,96	3,15	3,33	3,43	3,62
	-2	/	24,23	21,73	16,78	11,91	7,24	/	3,01	3,17	3,30	3,37	3,59
	0	/	25,26	22,66	17,50	12,42	7,53	/	3,23	3,40	3,50	3,57	3,77
	2	/	26,59	23,85	18,42	13,07	7,92	/	3,61	3,84	3,97	4,06	4,13
	5	30,47	29,12	26,13	20,22	14,37	9,18	4,12	4,17	4,37	4,49	4,53	5,31
	7	30,49	29,98	26,92	20,83	14,81	9,71	4,56	4,61	4,73	4,90	4,97	5,73
	10	31,31	30,16	27,08	20,97	14,93	10,56	5,22	5,30	5,44	5,59	5,66	6,00
	12	31,79	30,05	26,99	20,92	14,90	11,18	5,25	5,32	5,48	5,62	5,69	6,06
	15	32,50	29,89	26,85	20,83	14,86	12,11	5,29	5,36	5,55	5,66	5,74	6,15
	20	33,71	30,08	27,03	20,97	14,96	13,85	5,44	5,49	5,73	5,84	5,86	6,21
	25	34,27	29,53	26,56	20,60	15,80	/	5,53	5,59	5,85	5,94	6,24	/
	30	/	/	/	/	/	/	/	/	/	/	/	/
	35	/	/	/	/	/	/	/	/	/	/	/	/
30	-25	/	12,77	11,44	8,82	6,24	3,77	/	2,12	2,15	2,22	2,30	2,40
	-20	/	15,10	13,53	10,43	7,39	4,47	/	2,29	2,33	2,46	2,51	2,62
	-15	/	17,74	15,90	12,26	8,69	5,26	/	2,62	2,67	2,84	2,92	3,01
	-10	/	20,71	18,56	14,33	10,15	6,15	/	2,61	2,76	2,92	2,99	3,11
	-7	/	22,32	20,01	15,44	10,95	6,61	/	2,72	2,92	3,05	3,16	3,27
	-5	/	22,94	20,57	15,88	11,26	6,80	/	2,73	2,92	3,10	3,20	3,38
	-2	/	24,04	21,55	16,64	11,80	7,12	/	2,80	2,96	3,09	3,16	3,38
	0	/	25,04	22,46	17,34	12,30	7,40	/	2,96	3,12	3,23	3,30	3,49
	2	/	26,35	23,63	18,25	12,95	7,79	/	3,15	3,39	3,52	3,61	3,68
	5	30,12	30,12	26,23	20,29	14,42	9,02	3,68	3,68	3,94	4,05	4,10	4,86
	7	30,11	30,11	27,02	20,91	14,86	9,54	4,12	4,21	4,33	4,49	4,57	5,31
	10	30,88	30,02	26,96	20,87	14,85	10,37	4,63	4,71	4,84	5,00	5,06	5,40
	12	31,33	30,00	26,94	20,87	14,87	10,97	4,66	4,73	4,89	5,03	5,10	5,47
	15	32,01	29,97	26,92	20,87	14,89	11,88	4,71	4,78	4,97	5,08	5,16	5,57
	20	33,14	29,96	26,92	20,88	14,90	13,57	4,87	4,92	5,09	5,20	5,22	5,64
	25	33,83	29,72	26,73	20,72	15,47	/	4,97	5,03	5,17	5,25	5,68	/
	30	34,82	29,26	26,30	20,45	17,61	/	5,24	5,32	5,35	5,37	5,73	/
	35	/	/	/	/	/	/	/	/	/	/	/	/
35	-25	/	12,71	11,39	8,78	6,21	3,72	/	1,97	2,00	2,06	2,14	2,25
	-20	/	15,01	13,45	10,37	7,34	4,40	/	2,09	2,13	2,26	2,31	2,42
	-15	/	17,62	15,79	12,18	8,63	5,18	/	2,35	2,40	2,57	2,65	2,74
	-10	/	20,55	18,42	14,21	10,07	6,05	/	2,42	2,57	2,72	2,80	2,91
	-7	/	23,00	20,94	16,16	11,45	6,91	/	2,45	2,64	2,77	2,89	3,00
	-5	/	22,74	20,38	15,73	11,15	6,69	/	2,53	2,72	2,91	3,01	3,19
	-2	/	23,81	21,34	16,47	11,68	7,00	/	2,63	2,79	2,91	2,99	3,21
	0	/	24,79	22,23	17,16	12,17	7,12	/	2,72	2,89	3,00	3,07	3,26
	2	/	26,00	23,38	18,05	12,79	7,61	/	2,80	3,03	3,17	3,26	3,41
	5	29,72	29,72	25,87	20,01	14,21	8,83	3,32	3,32	3,58	3,70	3,74	4,56
	7*	/	30,10	26,98	20,87	14,83	9,33	/	3,91	4,03	4,20	4,27	5,06
	10	/	29,83	26,78	20,73	14,75	10,14	/	4,21	4,35	4,50	4,57	5,18
	12	/	29,95	26,89	20,82	14,81	10,73	/	4,28	4,44	4,58	4,65	5,18
	15	/	30,12	27,05	20,95	14,91	11,63	/	4,39	4,59	4,70	4,77	5,18
	20	/	30,18	27,11	21,03	15,00	13,28	/	4,60	4,83	4,94	4,96	5,31
	25	/	30,00	26,96	20,92	15,12	/	/	4,73	5,00	5,08	5,38	/
	30	/	30,20	27,16	21,12	17,19	/	/	4,92	4,94	4,96	5,32	/
	35	/	30,09	27,04	21,03	19,52	/	/	5,23	5,26	5,28	5,60	/
40	-25	/	14,06	12,60	9,72	6,88	4,04	/	1,87	1,94	2,07	2,13	2,17
	-20	/	16,49	14,78	11,40	8,07	4,74	/	2,05	2,16	2,33	2,41	2,51
	-15	/	19,21	17,22	13,29	9,42	5,54	/	2,25	2,40	2,55	2,62	2,74
	-10	/	21,00	18,83	14,53	10,30	6,06	/	2,29	2,50	2,63	2,75	2,86
	-7	/	22,50	20,17	15,56	11,03	6,23	/	2,35	2,55	2,74	2,84	2,99
	-5	/	23,54	21,10	16,28	11,54	6,59	/	2,36	2,60	2,73	2,80	2,97
	-2	/	24,50	21,96	16,95	12,02	6,98	/	2,42	2,67	2,77	2,84	3,04
	0	/	25,75	23,08	17,82	12,63	7,48	/	2,56	2,77	2,91	3,00	3,07
	2	29,27	28,38	25,47	19,69	13,99	8,76	3,19	3,24	3,45	3,57	3,61	4,12
	5	29,83	29,83	26,77	20,70	14,71	9,25	3,41	3,49	3,65	3,82	3,89	4,49
	7	30,42	29,86	26,81	20,74	14,75	9,93	3,66	3,74	3,94	4,10	4,16	4,56
	10	30,59	29,73	26,69	20,67	14,70	10,50	3,77	3,85	4,05	4,19	4,26	4,62
	12	30,85	29,53	26,52	20,55	14,61	11,36	3,95	4,01	4,22	4,33	4,40	4,71
	15	31,84	29,62	26,52	20,57	14,67	12,95	4,19	4,24	4,37	4,48	4,52	4,84
	20	33,00	29,31	26,36	20,43	14,74	/	4,30	4,36	4,46	4,55	4,90	/
	25	33,74	29,65	26,67	20,74	16,74	/	4,66	4,73	4,77	4,79	5,10	/
	30	33,59	29,61	26,61	20,69	18,99	/	4,82	4,87	4,89	4,92	5,16	/
	35	33,59	29,61	26,61	20,69	18,99	/	4,82	4,87	4,89	4,92	5,16	/

Tw_out °C	*DB/WB °C*	Heating Capacity [W]						COP					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
45	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	16,60	16,60	14,88	11,47	8,12	4,75	1,90	1,90	2,01	2,18	2,27	2,36
	-10	19,32	19,32	17,32	13,36	9,46	5,54	2,05	2,05	2,19	2,35	2,42	2,54
	-7	22,00	22,00	20,49	15,80	11,19	6,76	2,10	2,10	2,31	2,44	2,56	2,67
	-5	22,22	22,22	19,91	15,36	10,88	6,82	2,15	2,15	2,35	2,53	2,63	2,78
	-2	23,42	23,42	20,99	16,19	11,47	6,93	2,19	2,19	2,43	2,56	2,63	2,80
	0	24,36	24,36	21,84	16,85	11,94	7,33	2,20	2,20	2,45	2,56	2,63	2,82
	2	26,00	26,00	25,37	19,57	13,87	8,25	2,25	2,25	2,46	2,60	2,69	2,75
	5	28,77	28,77	25,02	19,34	13,74	8,32	2,75	2,75	3,01	3,13	3,17	3,69
	7	30,00	30,00	26,78	20,70	14,70	8,79	2,90	2,90	3,06	3,23	3,30	3,98
	10	30,36	29,82	26,76	20,70	14,72	9,69	3,16	3,16	3,24	3,44	3,60	4,06
	12	30,29	29,70	26,66	20,63	14,67	10,24	3,26	3,26	3,33	3,53	3,67	4,11
	15	30,18	29,53	26,51	20,53	14,60	11,07	3,42	3,42	3,48	3,68	3,79	4,17
	20	31,69	29,58	26,57	20,60	14,69	12,61	3,61	3,61	3,66	3,79	3,90	4,27
	25	32,42	29,42	26,43	20,50	14,62	14,33	3,83	3,89	4,00	4,08	4,10	4,44
	30	33,32	29,34	26,39	20,45	16,25	/	4,08	4,15	4,19	4,22	4,52	/
	35	32,78	29,50	26,51	20,61	18,41	/	4,30	4,42	4,46	4,48	4,75	/
50	-25	/	/	/	/	/	/	/	/	/	/	/	/
	-20	/	/	/	/	/	/	/	/	/	/	/	/
	-15	/	16,26	14,57	11,23	7,95	4,61	/	1,69	1,82	1,91	1,96	2,03
	-10	/	18,89	16,93	13,06	9,25	5,36	/	1,73	1,91	2,02	2,09	2,1

TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

IDOLA M 3.2 Mod. 22T - Prestazioni raffreddamento / Cooling capacity

Tw_out °C	DB/WB °C	Cooling Capacity [W]						EER						
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%	
5	-5	/	/	/	/	/	/	/	/	/	/	/	/	/
	0	/	/	/	/	/	/	/	/	/	/	/	/	/
	5	/	/	/	/	/	/	/	/	/	/	/	/	/
	10	/	/	/	/	/	/	/	/	/	/	/	/	/
	15	/	/	/	/	/	/	/	/	/	/	/	/	/
	20	19.25	19.25	17.46	13.78	9.97	8.54	4.10	4.10	4.20	4.62	4.95	5.15	
	25	21.19	20.67	18.77	14.86	10.80	8.25	3.53	3.59	3.70	4.13	4.45	4.70	
	30	22.33	20.37	18.51	14.67	10.68	7.96	2.88	3.11	3.23	3.64	4.01	4.24	
	35	21.39	20.92	19.04	15.13	11.05	7.65	2.47	2.52	2.66	3.08	3.44	3.72	
7	40	19.08	19.08	17.36	13.80	10.08	7.34	2.31	2.31	2.38	2.78	3.15	3.38	
	43	15.99	15.99	14.54	11.54	8.41	7.00	2.05	2.05	2.18	2.59	2.95	3.20	
	-5	/	/	/	/	/	/	/	/	/	/	/	/	
	0	/	/	/	/	/	/	/	/	/	/	/	/	
	5	/	/	/	/	/	/	/	/	/	/	/	/	
	10	/	/	/	/	/	/	/	/	/	/	/	/	
	15	19.75	19.75	17.91	14.09	10.18	10.18	4.90	4.90	5.08	5.37	5.65	5.65	
	20	20.19	20.19	18.31	14.47	10.47	9.03	4.42	4.42	4.56	4.97	5.27	5.49	
	25	22.21	21.12	19.18	15.18	11.04	8.72	3.88	3.95	4.14	4.55	4.84	5.04	
10	30	23.40	20.82	18.92	15.00	10.92	8.42	3.27	3.50	3.70	4.11	4.41	4.65	
	35	22.40	21.00	19.05	15.14	11.05	8.09	2.79	2.95	3.20	3.62	3.89	4.18	
	40	19.52	19.52	17.76	14.13	10.31	7.75	2.70	2.70	2.89	3.31	3.64	3.95	
	43	16.76	16.76	15.24	12.11	8.83	7.45	2.37	2.37	2.59	2.99	3.36	3.62	
	-5	/	/	/	/	/	/	/	/	/	/	/	/	
	0	/	/	/	/	/	/	/	/	/	/	/	/	
	5	/	/	/	/	/	/	/	/	/	/	/	/	
	10	18.40	18.40	16.67	13.06	11.63	11.63	5.95	5.95	6.08	6.24	6.50	6.50	
	15	20.67	20.67	18.74	14.74	10.97	10.97	5.45	5.45	5.56	5.92	6.25	6.35	
15	20	22.57	20.62	18.70	14.78	10.69	10.72	4.77	4.89	5.02	5.37	5.68	5.81	
	25	24.80	21.13	19.18	15.18	11.00	10.35	4.27	4.49	4.62	5.04	5.34	5.48	
	30	26.08	20.90	18.99	15.05	10.95	9.99	3.75	3.98	4.10	4.47	4.73	4.95	
	35	24.42	21.15	19.24	15.28	11.15	9.55	3.23	3.50	3.64	4.03	4.31	4.53	
	40	22.26	20.71	18.86	15.02	10.97	9.15	2.97	3.08	3.22	3.58	3.86	4.09	
	43	19.68	19.68	17.94	14.30	10.47	8.73	2.82	2.82	2.98	3.32	3.64	3.85	
	-5	19.99	19.99	18.12	14.17	13.86	13.86	7.65	7.65	7.72	7.97	8.20	8.30	
	0	19.61	19.61	17.77	13.89	13.59	13.59	7.25	7.25	7.30	7.55	7.80	7.90	
	5	19.17	19.17	17.35	13.59	13.29	13.29	6.88	6.88	6.94	7.19	7.43	7.53	
18	10	20.22	20.22	18.32	14.36	12.88	12.88	6.51	6.51	6.58	6.86	7.10	7.20	
	15	21.13	21.13	19.17	15.14	12.48	12.48	6.01	6.01	6.11	6.52	6.75	6.85	
	20	22.76	22.01	19.97	15.79	12.13	12.13	5.47	5.52	5.63	6.04	6.32	6.42	
	25	26.14	21.93	19.92	15.76	11.71	11.71	4.83	5.03	5.16	5.64	5.92	6.02	
	30	27.49	21.77	19.78	15.68	11.41	11.31	4.23	4.43	4.61	5.06	5.26	5.47	
	35	27.67	22.14	20.15	16.01	11.68	10.86	3.73	4.05	4.22	4.71	4.93	5.16	
	40	24.66	21.73	19.80	15.77	11.53	10.41	3.36	3.58	3.80	4.29	4.50	4.72	
	43	21.20	21.20	19.34	15.45	11.32	9.93	3.30	3.30	3.51	3.96	4.18	4.39	
	-5	22.03	22.03	19.99	15.63	13.82	13.82	7.85	7.85	7.92	8.17	8.44	8.54	
20	0	21.64	21.64	19.61	15.34	13.55	13.55	7.70	7.70	7.79	8.05	8.26	8.36	
	5	21.16	21.16	19.17	15.02	13.25	13.25	7.32	7.32	7.40	7.65	7.87	7.97	
	10	21.40	21.40	19.40	15.21	12.85	12.85	6.92	6.92	7.03	7.29	7.56	7.66	
	15	22.44	22.44	20.36	15.98	12.91	12.91	6.45	6.45	6.60	6.92	7.17	7.27	
	20	25.07	23.43	21.27	16.83	12.56	12.56	5.90	6.05	6.20	6.50	6.76	6.86	
	25	26.46	23.37	21.23	16.82	12.12	12.12	5.18	5.48	5.69	6.11	6.39	6.49	
	30	28.98	23.21	21.10	16.75	11.64	11.64	4.62	4.95	5.10	5.52	5.85	5.95	
	35*	28.37	23.00	20.88	16.60	12.12	11.18	4.23	4.60	4.75	5.15	5.51	5.65	
	40	23.86	23.21	21.16	16.88	12.35	10.71	3.99	4.04	4.19	4.60	4.92	5.12	
25	43	22.03	22.03	20.10	16.07	11.78	10.22	3.65	3.65	3.81	4.22	4.55	4.75	
	-5	23.68	22.64	20.55	16.06	15.06	15.06	8.05	8.13	8.23	8.47	8.70	8.80	
	0	23.28	23.28	21.11	16.51	14.78	14.78	7.91	7.91	8.04	8.29	8.50	8.60	
	5	22.77	22.77	20.64	16.17	14.47	14.47	7.65	7.65	7.77	8.02	8.26	8.36	
	10	23.99	23.03	20.88	16.38	14.03	14.03	7.30	7.35	7.45	7.73	7.95	8.05	
	15	24.12	23.20	21.05	16.52	13.58	13.58	6.90	6.96	7.10	7.41	7.65	7.75	
	20	26.93	23.41	21.25	16.74	13.21	13.21	6.39	6.61	6.81	7.16	7.38	7.48	
	25	28.56	22.56	20.48	16.15	12.75	12.75	5.80	6.05	6.24	6.57	6.87	6.97	
	30	29.40	23.31	21.19	16.82	12.31	12.31	5.15	5.50	5.70	6.15	6.49	6.59	
30	35	29.04	23.10	21.02	16.71	11.83	11.83	4.79	5.05	5.20	5.68	6.00	6.10	
	40	25.56	22.76	20.74	16.53	11.33	11.33	4.26	4.48	4.62	5.14	5.46	5.56	
	43	22.94	22.94	20.94	16.76	12.30	10.81	4.03	4.03	4.19	4.65	4.91	5.08	
	-5	25.32	22.99	20.55	17.98	17.36	17.36	8.25	8.37	8.37	8.57	8.82	8.92	
	0	24.91	22.60	20.25	17.68	17.07	17.07	8.02	8.13	8.13	8.33	8.57	8.67	
	5	25.50	23.24	21.06	17.33	16.73	16.73	7.83	7.92	7.92	8.12	8.35	8.45	
	10	25.77	22.51	20.41	16.79	16.21	16.21	7.42	7.57	7.69	7.95	8.17	8.27	
	15	25.94	22.83	20.71	16.25	15.69	15.69	7.22	7.35	7.49	7.78	7.99	8.09	
	20	29.10	23.17	21.02	16.56	15.27	15.27	6.70	6.95	7.00	7.26	7.48	7.58	
35	25	29.48	23.30	21.16	16.68	14.73	14.73	6.10	6.38	6.57	6.91	7.16	7.26	
	30	29.41	23.31	21.19	16.80	14.24	14.24	5.65	5.90	5.96	6.33	6.56	6.66	
	35	28.85	22.94	20.87	16.58	13.67	13.67	5.24	5.54	5.59	5.89	6.14	6.24	
	40	27.63	22.14	20.16	16.04	13.08	13.08	4.69	4.94	5.07	5.34	5.63	5.73	
	43	24.75	22.55	20.58	16.44	12.47	12.47	4.29	4.45	4.61	4.92	5.17	5.27	
	48	22.25	20.05	18.08	14.04	10.97	10.97	3.85	4.03	4.17	4.51	4.75	4.85	
	53	20.05	17.85	15.88	11.84	8.77	8.77	3.41	3.60	3.73	4.07	4.31	4.41	
	58	17.85	15.65	13.68	10.64	7.57	7.57	3.00	3.19	3.32	3.66	3.90	4.00	
	63	15.65	13.45	11.48	9.44	6.37	6.37	2.60	2.79	2.92	3.26	3.50	3.60	

IDOLA M 3.2 Mod. 26T - Prestazioni raffreddamento / Cooling capacity

Tw_out °C"	"DB/WB °C"	Cooling Capacity [W]					EER							
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%	
5	-5													
	0													
	5													
	10													
	15													
	20	23.12	23.12	21.00	16.64	12.10	8.54	3.79	3.79	3.94	4.36	4.69	5.15	
	25	26.91	24.87	22.63	17.99	13.13	8.25	3.20	3.25	3.39	3.82	4.15	4.70	
	30	27.51	25.17	22.95	18.32	13.43	8.40	2.52	2.75	2.88	3.30	3.67	3.90	
	35	26.29	24.97	22.80	18.25	13.41	8.29	2.12	2.17	2.32	2.74	3.10	3.38	
40	21.65	21.65	19.76	15.79	11.58	7.74	2.09	2.09	2.21	2.61	2.98	3.21		
43	18.04	18.04	16.45	13.11	9.60	7.39	1.87	1.87	2.00	2.41	2.77	3.02		
7	-5													
	0													
	5													
	10													
	15	20.41	20.41	18.51	14.57	10.52	10.18	4.79	4.79	4.98	5.31	5.59	5.65	
	20	23.94	23.94	21.75	17.23	12.54	9.03	4.22	4.22	4.36	4.77	5.07	5.49	
	25	27.97	25.81	23.49	18.69	13.65	8.72	3.62	3.75	3.94	4.35	4.64	5.04	
	30	28.61	26.14	23.85	19.05	13.97	8.93	3.00	3.26	3.46	3.87	4.17	4.41	
	35	27.34	26.00	23.71	18.99	13.97	8.64	2.54	2.70	2.95	3.37	3.64	3.93	
40	22.91	22.91	20.92	16.75	12.30	8.23	2.50	2.50	2.68	3.10	3.43	3.75		
43	19.11	19.11	17.43	13.91	10.20	7.85	2.15	2.15	2.37	2.77	3.15	3.40		
10	-5													
	0													
	5													
	10	20.60	20.60	18.60	14.68	11.63	11.63	5.70	5.70	5.89	6.12	6.50	6.50	
	15	22.15	22.15	20.09	15.82	11.43	10.97	5.22	5.22	5.33	5.69	6.22	6.35	
	20	25.39	25.39	23.07	18.30	13.33	10.72	4.68	4.68	4.81	5.16	5.47	5.81	
	25	29.33	26.92	24.50	19.50	14.25	10.35	4.03	4.25	4.38	4.80	5.09	5.48	
	30	30.12	26.80	24.45	19.53	14.33	10.02	3.45	3.70	3.82	4.19	4.45	4.67	
	35	28.26	26.70	24.39	19.54	14.37	9.63	3.02	3.23	3.37	3.76	4.04	4.26	
40	23.91	23.91	21.85	17.50	12.86	9.22	2.84	2.84	2.98	3.35	3.62	3.85		
43	20.24	20.24	18.47	14.76	10.83	8.80	2.59	2.59	2.75	3.09	3.41	3.63		
15	-5	21.90	21.90	19.87	15.53	14.21	13.86	7.40	7.40	7.49	7.83	8.06	8.30	
	0	21.51	21.51	19.49	15.25	13.94	13.59	7.05	7.05	7.13	7.45	7.71	7.90	
	5	21.03	21.03	19.05	14.93	13.64	13.29	6.65	6.65	6.73	7.06	7.30	7.53	
	10	22.09	22.09	20.03	15.71	13.22	12.88	6.30	6.30	6.39	6.75	6.99	7.20	
	15	23.93	23.93	21.61	17.10	12.80	12.48	5.80	5.80	5.90	6.30	6.54	6.85	
	20	27.71	26.95	24.50	19.45	14.13	12.13	5.20	5.25	5.36	5.77	6.04	6.42	
	25	30.89	27.38	24.92	19.83	14.49	11.71	4.64	4.84	4.98	5.46	5.73	6.02	
	30	31.93	27.44	24.43	19.99	14.66	11.61	4.01	4.28	4.40	4.85	5.05	5.26	
	35	29.90	26.87	24.54	19.65	14.44	11.15	3.45	3.77	3.94	4.43	4.65	4.88	
40	25.59	25.59	23.40	18.77	13.82	10.68	3.35	3.35	3.57	4.06	4.26	4.49		
43	22.03	22.03	20.13	16.12	11.89	10.19	3.10	3.10	3.31	3.76	3.98	4.19		
18	-5	23.77	23.77	21.57	16.87	15.44	13.82	7.55	7.55	7.63	7.96	8.24	8.54	
	0	23.37	23.37	21.19	16.58	15.16	13.55	7.41	7.41	7.50	7.86	8.07	8.36	
	5	23.82	23.82	21.59	16.93	14.84	13.25	7.05	7.05	7.14	7.49	7.71	7.97	
	10	23.99	23.99	21.76	17.08	14.38	12.85	6.70	6.70	6.81	7.15	7.42	7.66	
	15	25.10	25.10	22.66	17.95	13.93	12.91	6.25	6.25	6.40	6.72	6.97	7.27	
	20	29.21	26.74	24.31	19.28	14.00	12.56	5.67	5.82	5.97	6.27	6.53	6.86	
	25	32.67	27.33	24.87	19.78	14.39	12.12	4.94	5.24	5.45	5.87	6.15	6.49	
	30	33.11	27.52	25.10	20.04	14.75	12.63	4.36	4.70	4.84	5.26	5.59	5.79	
	35	30.97	27.00	24.67	19.74	14.51	12.14	3.93	4.30	4.45	4.85	5.21	5.42	
20	40	26.99	26.99	24.70	19.86	14.63	11.62	3.82	3.82	3.96	4.38	4.69	4.89	
	43	23.68	23.68	21.67	17.40	12.83	10.45	3.41	3.41	3.57	3.98	4.31	4.51	
	-5	25.10	25.10	22.80	17.83	16.32	15.06	7.90	7.90	8.01	8.35	8.58	8.80	
	0	24.69	24.69	22.40	17.53	16.04	14.78	7.62	7.62	7.75	8.08	8.30	8.60	
	5	25.18	25.18	22.83	17.91	15.70	14.47	7.39	7.39	7.51	7.82	8.06	8.36	
	10	25.35	25.35	23.01	18.06	15.22	14.03	7.08	7.08	7.19	7.54	7.76	8.05	
	15	26.51	26.51	23.94	18.98	14.73	13.58	6.71	6.71	6.85	7.16	7.40	7.75	
	20	30.82	27.36	24.87	19.73	14.33	13.21	6.12	6.35	6.55	6.89	7.12	7.48	
	25	34.41	27.17	24.72	19.65	14.30	12.75	5.55	5.80	5.99	6.32	6.63	6.97	
25	30	34.82	27.47	25.05	20.00	14.71	13.37	5.95	5.29	5.49	5.94	6.29	6.43	
	35	32.66	27.01	24.66	19.73	14.55	12.84	4.58	4.83	4.99	5.46	5.78	5.96	
	40	28.39	27.08	24.78	19.90	14.67	12.29	4.10	4.25	4.39	4.91	5.23	5.43	
	43	25.02	25.02	22.91	18.43	13.66	11.73	3.79	3.79	3.96	4.42	4.68	4.89	
	-5	27.21	27.21	24.72	19.33	18.49	17.36	8.15	8.15	8.20	8.55	8.79	8.92	
	0	26.79	26.79	24.31	19.03	18.19	17.07	7.95	7.95	8.01	8.32	8.57	8.67	
	5	27.37	27.37	24.84	19.49	17.83	16.73	7.70	7.70	7.75	8.08	8.32	8.45	
	10	27.59	26.49	24.05	18.88	17.27	16.21	7.27	7.35	7.48	7.81	8.03	8.27	
	15	29.98	26.66	24.22	19.04	16.72	15.69	7.00	7.13	7.27	7.64	7.85	8.09	
30	20	33.79	26.90	24.44	19.29	16.28	15.27	6.42	6.72	6.81	7.08	7.30	7.58	
	25	34.99	27.82	25.32	20.13	15.70	14.73	5.80	6.15	6.34	6.68	6.93	7.26	
	30	34.30	27.42	25.00	19.94	15.18	15.18	5.40	5.68	5.76	6.11	6.34	6.44	
	35	33.72	27.08	24.72	19.77	14.57	14.57	5.08	5.37	5.44	5.80	6.05	6.15	
	40	30.31	26.58	24.30	19.49	14.41	13.94	4.44	4.72	4.86	5.19	5.48	5.60	
	43	27.29	26.60	24.38	19.66	14.60	13.29	4.18	4.25	4.40	4.75	5.00	5.15	

TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

IDOLA M 3.2 Mod. 30T - Prestazioni raffreddamento / Cooling capacity

Tw_out °C	°DB/WB °C	Cooling Capacity [W]						EER					
		130%	100%	90%	70%	50%	30%	130%	100%	90%	70%	50%	30%
5	-5	/	/	/	/	/	/	/	/	/	/	/	/
	0	/	/	/	/	/	/	/	/	/	/	/	/
	5	/	/	/	/	/	/	/	/	/	/	/	/
	10	/	/	/	/	/	/	/	/	/	/	/	/
	15	/	/	/	/	/	/	/	/	/	/	/	/
	20	26.31	26.31	23.93	19.01	13.87	8.54	3.55	3.55	3.70	4.12	4.45	5.15
	25	31.02	30.01	27.38	21.88	16.06	9.87	2.95	3.00	3.14	3.57	3.90	4.65
	30	30.32	30.32	27.80	22.44	16.62	10.42	2.45	2.45	2.58	3.00	3.37	3.72
	35	28.91	28.91	26.55	21.48	15.94	10.02	1.80	1.80	1.96	2.37	2.74	3.25
7	40	22.58	22.58	20.65	16.59	12.23	7.74	1.78	1.78	1.90	2.30	2.68	3.21
	43	18.92	18.92	17.28	13.84	10.17	7.39	1.56	1.56	1.68	2.09	2.46	3.02
	-5	/	/	/	/	/	/	/	/	/	/	/	/
	0	/	/	/	/	/	/	/	/	/	/	/	/
	5	/	/	/	/	/	/	/	/	/	/	/	/
	10	/	/	/	/	/	/	/	/	/	/	/	/
	15	24.25	24.25	22.02	17.37	12.66	10.18	4.45	4.45	4.60	5.10	5.27	5.65
	20	26.79	26.79	24.37	19.36	14.13	9.03	4.00	4.00	4.14	4.55	4.85	5.49
	25	31.72	30.14	27.49	21.97	16.11	9.91	3.30	3.45	3.64	4.05	4.34	5.01
10	30	31.45	30.08	27.57	22.24	16.46	10.31	2.82	2.98	3.18	3.60	3.89	4.30
	35	30.00	30.00	27.56	22.33	16.59	10.44	2.35	2.35	2.60	3.02	3.29	3.78
	40	23.44	23.44	21.46	17.26	12.74	8.23	2.18	2.18	2.37	2.79	3.12	3.75
	43	19.66	19.66	17.97	14.41	10.60	7.85	1.95	1.95	2.17	2.57	2.94	3.40
	-5	/	/	/	/	/	/	/	/	/	/	/	/
	0	/	/	/	/	/	/	/	/	/	/	/	/
	5	/	/	/	/	/	/	/	/	/	/	/	/
	10	22.54	22.54	20.44	16.09	11.63	11.63	5.45	5.45	5.68	5.92	6.50	6.50
	15	26.08	26.08	23.69	18.69	13.53	10.97	4.95	4.95	5.06	5.42	5.94	6.35
15	20	29.22	29.22	26.60	21.16	15.46	10.72	4.42	4.42	4.54	4.90	5.21	5.81
	25	33.65	29.99	27.34	21.82	15.99	10.35	3.67	3.95	4.08	4.50	4.79	5.48
	30	33.44	30.29	27.75	22.35	16.53	10.02	3.12	3.40	3.51	3.89	4.14	4.67
	35	31.86	30.41	27.93	22.61	16.79	10.56	2.70	2.90	3.04	3.43	3.71	4.22
	40	25.03	25.03	22.93	18.47	13.65	9.22	2.56	2.56	2.69	3.06	3.33	3.85
	43	21.29	21.29	19.49	15.66	11.55	8.80	2.32	2.32	2.48	2.82	3.14	3.63
	-5	23.85	23.85	21.65	16.93	13.86	13.86	7.16	7.16	7.24	7.58	8.20	8.30
	0	23.45	23.45	21.27	16.64	13.59	13.59	6.75	6.75	6.83	7.15	7.80	7.90
	5	23.86	23.86	21.63	16.97	13.29	13.29	6.37	6.37	6.45	6.78	7.43	7.53
18	10	25.00	25.00	22.57	17.85	12.88	12.88	6.02	6.02	6.11	6.47	7.10	7.20
	15	28.37	28.37	25.79	20.36	13.75	12.48	5.52	5.52	5.62	6.02	6.45	6.85
	20	32.03	30.50	27.77	22.10	16.16	12.13	4.86	4.98	5.09	5.50	5.77	6.42
	25	35.04	30.79	28.07	22.40	16.42	11.71	4.30	4.58	4.72	5.20	5.47	6.02
	30	35.61	30.75	28.17	22.68	16.77	11.61	3.65	3.99	4.11	4.56	4.76	5.26
	35	33.91	30.54	28.04	22.67	16.82	11.15	3.15	3.45	3.63	4.11	4.34	4.88
	40	26.78	26.78	24.56	19.83	14.68	10.68	3.08	3.30	3.30	3.79	3.99	4.49
	43	23.15	23.15	21.22	17.10	12.64	10.19	2.82	2.82	3.03	3.48	3.70	4.19
	-5	25.88	25.88	23.51	18.39	13.82	13.82	7.28	7.28	7.36	7.69	8.44	8.54
20	0	25.47	25.47	23.11	18.09	13.55	13.55	7.17	7.17	7.26	7.62	8.26	8.36
	5	25.93	25.93	23.52	18.45	13.25	13.25	6.79	6.79	6.88	7.23	7.87	7.97
	10	27.15	27.15	24.52	19.42	12.85	12.85	6.48	6.48	6.59	6.93	7.56	7.66
	15	28.98	28.98	26.34	20.80	13.17	12.91	6.02	6.02	6.17	6.49	7.12	7.27
	20	33.85	30.52	27.78	22.11	16.09	12.56	5.40	5.56	5.71	6.01	6.27	6.86
	25	36.36	30.96	28.22	22.52	16.50	12.12	4.68	4.98	5.19	5.61	5.89	6.49
	30	37.02	31.09	28.48	22.93	16.95	12.63	4.09	4.42	4.56	4.98	5.31	5.79
	35*	35.23	31.00	28.44	22.99	17.06	12.14	3.65	4.00	4.15	4.55	4.91	5.42
	40	28.21	28.21	25.91	20.96	15.55	11.62	3.58	3.58	3.72	4.14	4.45	4.89
25	43	25.51	25.51	23.44	18.97	14.08	10.45	3.16	3.16	3.32	3.73	4.06	4.51
	-5	28.00	28.00	25.45	19.91	15.06	15.06	7.66	7.66	7.76	8.11	8.70	8.80
	0	27.58	27.58	25.04	19.61	14.78	14.78	7.36	7.36	7.49	7.82	8.50	8.60
	5	28.09	28.09	25.50	20.01	14.47	14.47	7.15	7.15	7.27	7.58	8.26	8.36
	10	29.41	29.41	26.56	21.06	14.03	14.03	6.84	6.84	6.95	7.29	7.95	8.05
	15	30.72	30.38	27.63	21.82	13.58	13.58	6.42	6.47	6.61	6.92	7.65	7.75
	20	35.66	30.23	27.51	21.88	13.72	13.21	5.85	6.09	6.29	6.64	7.34	7.48
	25	37.56	30.84	28.10	22.41	16.35	12.75	5.30	5.57	5.76	6.09	6.39	6.97
	30	38.33	31.19	28.57	22.99	16.99	13.37	4.73	5.08	5.28	5.73	6.08	6.43
30	35	36.30	31.05	28.50	23.04	17.09	12.84	4.26	4.55	4.70	5.18	5.50	5.96
	40	30.13	30.13	27.72	22.49	16.74	12.29	3.99	3.99	4.13	4.64	4.97	5.43
	43	26.63	26.63	24.49	19.86	14.77	11.73	3.55	3.55	3.72	4.17	4.44	4.89
	-5	29.95	29.95	27.23	21.30	17.36	17.36	7.85	7.85	7.91	8.25	8.82	8.92
	0	29.52	29.52	26.82	21.00	17.07	17.07	7.70	7.70	7.75	8.07	8.57	8.67
	5	30.12	30.12	27.35	21.48	16.73	16.73	7.48	7.48	7.52	7.86	8.35	8.45
	10	30.28	30.28	27.52	21.64	16.21	16.21	7.12	7.12	7.24	7.57	8.17	8.27
	15	33.80	31.64	28.59	22.74	15.69	15.69	6.73	6.88	7.03	7.39	7.99	8.09
	20	38.57	31.55	28.72	22.86	15.27	15.27	6.18	6.50	6.59	6.86	7.48	7.58
40	25	39.21	31.32	28.55	22.77	14.73	14.73	5.50	5.90	6.09	6.43	7.16	7.26
	30	38.34	31.06	28.43	22.87	17.12	15.18	5.02	5.42	5.50	5.85	6.08	6.44
	35	37.87	31.26	28.69	23.18	17.44	14.57	4.80	5.10	5.17	5.54	5.78	6.15
	40	31.83	31.13	28.66	23.29	17.35	13.94	4.45	4.49	4.62	4.96	5.24	5.60
	43	28.03	28.03	25.81	20.99	15.88	13.29	4.02	4.02	4.17	4.52	4.77	5.15

*: Performance values useful for accessing the incentives provided in Italy / Valori prestazionali utili per accedere agli incentivi previsti in Italia

NOTE

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[illegible]



Lamborghini Caloreclima – www.lamborhinalor.it
è un marchio commerciale di FERROLI S.p.A. - Via Ritonda 78/a
37047 San Bonifacio (Verona) Italy - tel. +39.045.6139411 - fax. +39.045.6100933
www.ferroli.com

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