Product Fiche

Importer: Salvador Escoda S.A.

Address: Provenza, 392 P2, 08025 Barcelona (Spain)

Otherwise, parameters shall be declared for mediasonal space heating energy efficiency we mode coef. of performance seasonal coef. of performance - 7 °C + 2 °C + 7 °C + 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP: Operation limit perature (maximum-7°C) ating water rating limit temperature	Symbol	z.59 3.84 5.21 7.1 2.34 x,xx -10 x	[yes] [no] [no] [yes] n. Unit %
nsonal space heating energy efficiency ve mode coef. of performance seasonal coef. of performance - 7 °C + 2 °C + 7 °C + 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP : Operation limit perature (maximum - 7 °C) string water rating limit temperature	Symbol	Value	[no] [yes] n. Unit %
nsonal space heating energy efficiency ve mode coef. of performance seasonal coef. of performance - 7 °C + 2 °C + 7 °C + 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP : Operation limit perature (maximum - 7 °C) string water rating limit temperature	Symbol	Value	[yes] n. Unit %
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- 7 °C + 2 °C + 7 °C + 12 °C + 7 °C + 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP: Operation limit perature (maximum -7 °C) titing water rating limit temperature ling interval efficiency = +7 °C ling interval efficiency	COPd COPd COPd COPd COPd COPd COPd TOL	3.84 5.21 7.1 2.34 2.34 x,xx	- - - - - -
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+ 2 °C + 7 °C + 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP : Operation limit perature (maximum -7 °C) titing water rating limit temperature ling interval efficiency = +7 °C ling interval efficiency	COPd COPd COPd COPd COPd TOL WTOL	3.84 5.21 7.1 2.34 2.34 x,xx	- - - - -
+ 7 °C + 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP: Operation limit perature (maximum -7 °C) ating water rating limit temperature ling interval efficiency = +7 °C ling interval efficiency	COPd COPd COPd COPd COPd TOL	5.21 7.1 2.34 2.34 x,xx	°C
+ 12 °C bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP: Operation limit perature (maximum -7°C) ating water rating limit temperature ling interval efficiency = +7°C	COPd COPd COPd COPd TOL	7.1 2.34 2.34 x,xx -10	°C
bivalent temperature operation limit temperature air-to-water heat pumps: - 15 °C (if TOL < - 20 °C) air-to-water HP: Operation limit perature (maximum -7°C) ating water rating limit temperature ling interval efficiency = +7°C	COPd COPd COPd TOL WTOL	2.34 2.34 x,xx -10	- - °C
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rating limit temperature ling interval efficiency = +7°C ling interval efficiency		х	°C
= +7°C 	COPayo		
ling interval efficiency		x,xx	
	+ -		
= +12°C	COPcyc	X,XX	_
ling interval efficiency = +7°C	COPcyc	x,xx	_
ling interval efficiency	COPcyc	x,xx	
= +12°C	Joon sys	λ,λι	
plementary heater (to be declared eve	n if not provi	ded in the	unit)
	1	1	,
ed heat output (1)		x,x	kW
of anarquing of	- sup(1])		
e oi energy input	1		
door heat exchanger			
air-to-water HP: Rated air flow rate	Q _{airsource}	12500	m ³ /h
water-to-water: Rated water flow rate	Q _{watersource}	х	m ³ /h
brine-to-water: Rated brine flow rate	Q _{brinesource}	х	m ³ /h
ENZA 392 P2 08172 BARCELONA (SF		1	
ut or	ated heat output (1) //pe of energy input //pe of energy input	psup = sup(Tj) //pe of energy input utdoor heat exchanger or air-to-water HP: Rated air flow rate or water-to-water: Rated water flow rate Qwatersource or brine-to-water: Rated brine flow rate Qbrinesource /ENZA 392 P2 08172 BARCELONA (SPAIN)	presented heat output (1) proper of energy input pro

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	heat pump s	pace heate	rs and h	eat pump combination heaters			
Model(s):				MUENR-60-H7T			Ι, ,
Air-to-water heat pump:							[yes]
Water-to-water heat pump:							[no]
Brine-to-water heat pump:							[no]
Low-temperature heat pump:							[yes]
Equipped with a supplementary heater	:						[no]
Heat pump combination heater:							[no]
For low-temperature heat pumps, parameters sh	nall be declared for	low-temperature a	application. C	Otherwise, parameters shall be declared for medium-temper	erature application		
Parameters shall be declared for average climat	te conditions.			, ,			1
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output ⁽¹⁾ at Tdesignh = -10 (-11) °C	Prated = Pdesignh	31	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	152	%
Seasonal coefficient of performance	SCOP	3.85	_	Active mode coef. of performance	SCOPon	X.XX	_
•	I	<u> </u>		Net seasonal coef. of performance	SCOP _{net}	X.XX	_
					1100		1
T _j = -7 °C	Pdh	27.3	kW	T _j = -7 °C	COPd	2.84	_
T _j = + 2 °C	Pdh	17.1	kW	T _j = + 2 °C	COPd	3.60	_
T _j = + 7 °C	Pdh	15.4	kW	T _j = + 7 °C	COPd	5.24	_
T _i = + 12 °C	Pdh	12.5	kW	T _i = + 12 °C	COPd	6.43	<u> </u>
T _i = bivalent temperature	Pdh	27.3	kW	T _i = bivalent temperature	COPd	2.84	_
T _i = operation limit temperature	Pdh	31.5	kW	T _i = operation limit temperature	COPd	2.40	_
For air-to-water heat pumps: T _i = -15 °C (if TOL < -20 °C)	Pdh	x,x	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	COPd	X,XX	-
Bivalent temperature (maximum +2°C)	Tbiv	-7	°C	For air-to-water HP : Operation limit temperature (maximum -7°C)	TOL	-10	°C
Cycling interval capacity for heating at T _j = -7°C	Pcych	x,x	kW	Heating water operating limit temperature	WTOL	х	°C
Degradation coefficient (2) at T _j = -7°C	Cdh	x,xx	_	Cycling interval efficiency			
Cycling interval capacity for heating at Tj = +2°C	Pcych	x,x	kW	at T _j = +7°C	COPcyc	x,xx	_
Degradation coefficient (2) at T _j = +2°C	Cdh	x,xx	_	Cycling interval efficiency at T _j = +12°C	COPcyc	X,XX	-
Cycling interval capacity for heating at T _j = +7°C	Pcych	x,x	kW	Cycling interval efficiency at T _j = +7°C	COPcyc	X,XX	-
Degradation coefficient (2) at T _i = +7°C	Cdh	X,XX		Cycling interval efficiency			
Cycling interval capacity for heating at Tj = +12°C	Pcych	x,x	kW	at T _j = +12°C	COPcyc	X,XX	_
Degradation coefficient (2) at T _i = +12°C	Cdh	V VV	_	1			
Power consumption in mo		X,XX	_	Supplementary heater (to be declared even	if not provide	l in the unit)	
· · · · · · · · · · · · · · · · · · ·			1.4.47	Supplementary heater (to be declared even	ii flot brovided	i iii uie uriit)	
Off mode	P _{OFF}	0.08	kW	Rated heat output (1)	Psup = sup(Tj)	x,x	kW
Thermostat-off mode	P _{TO}	0.40	kW	Two of courses			
Standby mode	P _{SB}	0.08	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.08	kW				
Other items				Outdoor heat exchanger			
Capacity control	fixed/variable	variab	le	For air-to-water HP: Rated air flow rate	Q _{airsource}	24000	m ³ /h
Sound power level, indoors	L _{WA}	х	dB(A)	For water-to-water: Rated water flow rate	Q _{watersource}	х	m ³ /h
Sound power level, outdoors	L _{WA}	84	dB(A)	For brine-to-water: Rated brine flow rate	Q _{brinesource}	х	m ³ /h
	i			1 1			1

⁽¹⁾ 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).

⁽²⁾ If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,99.