

EUROPEAN ECODESIGN REGULATIONS



Reversible air-to-water heat pump with scroll compressor

AQUACIAT ILD 0150R-0600R -A



TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0150R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	32
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	150
Annual energy consumption	Q_{HE}	kWh	17090

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	27.9
	COP _d		2.49
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	18.1
	COP _d		3.78
	C _{dh} ^(**)		-
T _j = 7 °C	P _{dh}	kW	24.0
	COP _d		5.01
	C _{dh} ^(**)		0.97
T _j = 12 °C	P _{dh}	kW	27.0
	COP _d		6.23
	C _{dh} ^(**)		0.97
T _j = Operation limit temperature	P _{dh}	kW	26.5
	COP _d		2.30
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	27.9
	COP _d		2.49
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	172
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	5
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	81.5

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0180R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	33
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	151
Annual energy consumption	Q_{HE}	kWh	17991

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	29.6
	COP _d		2.47
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	19.6
	COP _d		3.85
	C _{dh} ^(**)		-
T _j = 7 °C	P _{dh}	kW	26.3
	COP _d		5.00
	C _{dh} ^(**)		0.97
T _j = 12 °C	P _{dh}	kW	29.3
	COP _d		6.29
	C _{dh} ^(**)		0.97
T _j = Operation limit temperature	P _{dh}	kW	28.1
	COP _d		2.29
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	29.6
	COP _d		2.47
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	172
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	5
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	82.5

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0200R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	36
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	149
Annual energy consumption	Q_{HE}	kWh	19731

Declared capacity (Pd_h), declared coefficient of performance (COP_d) and declared degradation coefficient (Cdh^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	Pd _h	kW	32.2
	COP _d		2.36
	Cdh ^(**)		-
T _j = 2 °C	Pd _h	kW	22.7
	COP _d		3.88
	Cdh ^(**)		0.97
T _j = 7 °C	Pd _h	kW	30.7
	COP _d		4.92
	Cdh ^(**)		0.98
T _j = 12 °C	Pd _h	kW	33.8
	COP _d		6.24
	Cdh ^(**)		0.97
T _j = Operation limit temperature	Pd _h	kW	30.6
	COP _d		2.19
	Cdh ^(**)		-
T _j = Bivalent temperature	Pd _h	kW	32.2
	COP _d		2.36
	Cdh ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	176
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	6
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	84.0

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

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

(**)If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0240R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	43
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	140
Annual energy consumption	Q_{HE}	kWh	24674

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

	P _{dh}	Unit	
T _j = -7 °C	P _{dh}	kW	37.7
	COP _d		2.34
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	25.7
	COP _d		3.51
	C _{dh} ^(**)		0.98
T _j = 7 °C	P _{dh}	kW	35.1
	COP _d		4.50
	C _{dh} ^(**)		0.98
T _j = 12 °C	P _{dh}	kW	38.1
	COP _d		6.58
	C _{dh} ^(**)		0.97
T _j = Operation limit temperature	P _{dh}	kW	35.8
	COP _d		2.17
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	37.7
	COP _d		2.34
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	178
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	7
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	88.5

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

[Information requirements pursuant to regulation \(EU\) N°813/2013](#)

Description

Model	AQUACIAT ILD 0260R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	50
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	144
Annual energy consumption	Q_{HE}	kWh	28018

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	44.0
	COP _d		2.48
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	28.8
	COP _d		3.60
	C _{dh} ^(**)		-
T _j = 7 °C	P _{dh}	kW	39.1
	COP _d		4.55
	C _{dh} ^(**)		0.98
T _j = 12 °C	P _{dh}	kW	42.2
	COP _d		6.41
	C _{dh} ^(**)		0.98
T _j = Operation limit temperature	P _{dh}	kW	41.9
	COP _d		2.30
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	44.0
	COP _d		2.48
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	178
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	8
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	89.0

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0300R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	55
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	143
Annual energy consumption	Q_{HE}	kWh	31191

Declared capacity (Pdh), declared coefficient of performance (COPd) and declared degradation coefficient (Cdh^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = -7 °C	Pdh	kW	48.6
	COPd		2.43
	Cdh ^(**)		-
Tj = 2 °C	Pdh	kW	32.8
	COPd		3.60
	Cdh ^(**)		0.98
Tj = 7 °C	Pdh	kW	44.4
	COPd		4.53
	Cdh ^(**)		0.98
Tj = 12 °C	Pdh	kW	47.5
	COPd		6.14
	Cdh ^(**)		0.98
Tj = Operation limit temperature	Pdh	kW	46.3
	COPd		2.26
	Cdh ^(**)		-
Tj = Bivalent temperature	Pdh	kW	48.6
	COPd		2.43
	Cdh ^(**)		-
Bivalent temperature	Tbiv	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	181
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	9
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	89.0

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

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

(**)If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0360R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	60
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	141
Annual energy consumption	Q_{HE}	kWh	34336

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	53.0
	COP _d		2.20
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	38.5
	COP _d		3.39
	C _{dh} ^(**)		0.99
T _j = 7 °C	P _{dh}	kW	51.1
	COP _d		5.26
	C _{dh} ^(**)		0.98
T _j = 12 °C	P _{dh}	kW	56.5
	COP _d		6.66
	C _{dh} ^(**)		0.98
T _j = Operation limit temperature	P _{dh}	kW	50.4
	COP _d		2.05
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	53.0
	COP _d		2.20
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	192
Standby mode	P _{SB}	W	150
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	9
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	92.0

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0390R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	68
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	139
Annual energy consumption	Q_{HE}	kWh	39780

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	60.5
	COP _d		2.18
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	36.8
	COP _d		3.19
	C _{dh} ^(**)		-
T _j = 7 °C	P _{dh}	kW	40.1
	COP _d		5.65
	C _{dh} ^(**)		0.97
T _j = 12 °C	P _{dh}	kW	45.5
	COP _d		6.85
	C _{dh} ^(**)		0.97
T _j = Operation limit temperature	P _{dh}	kW	57.4
	COP _d		2.02
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	60.5
	COP _d		2.18
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	237
Standby mode	P _{SB}	W	215
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	11
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	92.5

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0450R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	87
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	149
Annual energy consumption	Q_{HE}	kWh	47452

Declared capacity (Pdh), declared coefficient of performance (COPd) and declared degradation coefficient (Cdh^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = -7 °C	Pdh	kW	77.0
	COPd		2.50
	Cdh ^(**)		-
Tj = 2 °C	Pdh	kW	46.9
	COPd		3.39
	Cdh ^(**)		-
Tj = 7 °C	Pdh	kW	46.3
	COPd		5.75
	Cdh ^(**)		0.97
Tj = 12 °C	Pdh	kW	52.5
	COPd		6.87
	Cdh ^(**)		0.97
Tj = Operation limit temperature	Pdh	kW	72.2
	COPd		2.29
	Cdh ^(**)		-
Tj = Bivalent temperature	Pdh	kW	77.0
	COPd		2.50
	Cdh ^(**)		-
Bivalent temperature	Tbiv	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	240
Standby mode	P _{SB}	W	215
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	15
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	91.5

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

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

(**)If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0520R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	100
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	147
Annual energy consumption	Q_{HE}	kWh	54810

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	88.1
	COP _d		2.52
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	57.6
	COP _d		3.59
	C _{dh} ^(**)		-
T _j = 7 °C	P _{dh}	kW	39.3
	COP _d		4.83
	C _{dh} ^(**)		0.97
T _j = 12 °C	P _{dh}	kW	42.2
	COP _d		6.60
	C _{dh} ^(**)		0.96
T _j = Operation limit temperature	P _{dh}	kW	83.7
	COP _d		2.34
	C _{dh} ^(**)		-
T _j = Bivalent temperature	P _{dh}	kW	88.1
	COP _d		2.52
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	291
Standby mode	P _{SB}	W	280
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output ^(*)	P _{sup}	kW	16
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	92.0

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load f for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	AQUACIAT ILD 0600R -A
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	Yes
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	P_{rated}	kW	109
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	148
Annual energy consumption	Q_{HE}	kWh	59793

Declared capacity (Pdh), declared coefficient of performance (COPd) and declared degradation coefficient (Cdh(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature Tj

Tj = -7 °C	Pdh	kW	96.7
	COPd		2.46
	Cdh(**)		-
Tj = 2 °C	Pdh	kW	58.9
	COPd		3.66
	Cdh(**)		-
Tj = 7 °C	Pdh	kW	44.5
	COPd		4.87
	Cdh(**)		0.97
Tj = 12 °C	Pdh	kW	47.5
	COPd		6.42
	Cdh(**)		0.96
Tj = Operation limit temperature	Pdh	kW	91.8
	COPd		2.30
	Cdh(**)		-
Tj = Bivalent temperature	Pdh	kW	96.7
	COPd		2.46
	Cdh(**)		-
Bivalent temperature	Tbiv	°C	-7
Operation limit temperature	TOL	°C	-10

Power consumption in modes other than active mode

Off mode	P _{OFF}	W	0.0
Thermostat off-mode	P _{TO}	W	293
Standby mode	P _{SB}	W	280
Crankcase heater mode	P _{CK}	W	0.0

Supplementary heater

Rated heat output(*)	P _{sup}	kW	17
Type of energy input			Electrical

Other items

Capacity control			STAGED
Outlet temperature control			VARIABLE
Water flow rate control			VARIABLE
Rated Air flow rate outdoor1		l/s	0
Sound power level	LW _A	dBA	91.5

Contact details	CIAT - Avenue Jean Falconnier BP 14 - 01325 Culoz - France
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(1)Not applicable for air-to-water and brine-to-water heat pumps

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

(**)If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.