



TECHNICAL SUBMITTAL

Project:	MCFC Women's First Team	T.S No:	TS-M-002
A&B Contract No:	4070	Date:	11/06/2025
Engineer:	Stephen Hoy	Rev: P01	

F.T.A.O.	Name: Paul Buck Organisation: John Turner Construction Group
Copies To:	Name: Andrea Elliott / Sophie Kendall Organisation: CASE Building Services / A&B Engineering Ltd

Plant Item:	Air Source Heat Pump(s).
Specified Manufacturer:	<p>Mitsubishi Electric.</p> <ul style="list-style-type: none"> • UFH ASHP – PUZ-WM112VAA. • Pool ASHP - Climaventa NX-Q-G06 /SL /0502P.
Proposed Manufacturer:	Not Applicable.
Attachments:	<ul style="list-style-type: none"> • UFH ASHP Mitsubishi Proposal. • Pool ASHP Climaventa/Mitsubishi Proposal.

Approval Required By:	A.S.A.P
------------------------------	---------

<u>Response:</u>	
Date:	Signed:

The Renewable Solutions Provider

Making a World of Difference

Page - 1
Project Number - PRO-84914

Heating

Heating Only Heat Pumps For Small to Medium Applications
Ecodan PUZ Cascade Systems



Project Number	PRO-84914
Client	Kennedy Redford, Altrincham
Quote No.	QUO-0005-551654
Project Name	ter City Womens FC Ecodan UFH Ap
System Ref/Prop No.	UFH ASHP

Mitsubishi Electric Europe B.V. incorporated in the Netherlands with limited liability. Registered in England as a branch No. BR003391. Place of Registration: Travellers Lane, Hatfield, Hertfordshire, AL10 8XB.
This document is confidential and may also be privileged. If you are not the intended recipient, please notify this office immediately. You may not copy it, use it for any purpose nor disclose its contents to any other person
This quotation is issued subject to Mitsubishi Electric's Terms & Conditions of Sale.



Ecodan Cascade Data Capture Form

Please complete as many fields as possible in order for MEU-UK to provide most suitable technical proposal

Project Name	Manchester City Womens FC Ecodan UFH Application				
Client	Kennedy Redford, Altrincham				
Heat Pump Design Outdoor Temperature	-5				°C
Heat Pump Calculated Required Capacity	10				kW
Heat Pump Type	R32				
System Type	Heating Only				
Design Flow Temperature (Space Heating)	50				°C
Heat Emitter Type (e.g. radiators and/or underfloor heating)	UFH				
Control System	Mitsubishi Electric				
Heating Zones	1 zone				
How many units will provide hot water?	0	#			
Cylinder Type					
Amount of DHW Required					Litres
DHW Heat Pump Storage Temperature Required					°C
Do you require all Ecodan units in the system to provide DHW?					
Driving Force of System	PRICE	Yes	FOOTPRINT		NOISE
Required Electrical Connection of Ecodan HP	Single				Phases
Is this a bivalent application?	No				
Full Address and Postcode					
Notes					



Air Conditioning | Heating
Ventilation | Controls



Ver 1.3

Project Design

Best unit to achieve driving force of system PUZ-WM112VAA

Number of Units Required to Meet Load 1 #

Total Deliverable Capacity by Units 10.6 kW

Approximate Minimum Deliverable Capacity 3.2 kW

Nominal Flow Rate per Unit 32.1 l/min

Minimum Flow Rate per Unit 14.4 l/min

Recommended Pipe Size per Unit 35 mm

Minimum Allowable Pipe Size per Unit 28 mm

Approx. Low Loss Header Size N/A mm

Pressure Drop per unit (based on max flow rate) 24.0 kPa

Minimum Primary Circuit Water Volume 16 litres

Volume of water contained within units 2 litres

To avoid cycling and to allow a reasonable buffer during unit inactivity
Please note a buffer vessel may be required to ensure minimum volume is reached
2 litres contained within each unit

How many units will provide hot water? 0 #

Hot water capacity 0.0 kW

Min hot water flow rate 0 l/min

Max Delta T 11

Max hot water flow rate 0 l/min

Min Delta T 5

Maximum flow temperature in hot water mode 60 °C

Hot water cylinder volume 0 L

Information must be provided to third party cylinder manufacturer
Only 1 hot water cylinder can be used

Approximate cylinder recovery time from cold #DIV/0! minutes Assumed initial water temp. of 10°C



Air Conditioning | Heating
Ventilation | Controls



Electrical Information

Ecodan unit	PUZ-WM112VAA		
Number of units	1	#	
Phase	Single		
Maximum Running Current per unit	28	Amps	
Total Maximum Running Current for System	28	Amps	
Breaker size	32	Amps	per ecodan outdoor unit
FTC6 Power supply	16	Amps	
No. of FTC6 power supplies	2	#	
Immersion heater power supply	Please consider required power supply for your chosen immersion heater		
No. of FTC6 Master control boards required	2	PAC-IF072B-E	
No. of flow sensors required	1	PAC-FS01-E	
Pipe temp sensor pairs	2	PAC-TH011-E	0 of which are additional (ordered separately)
Hot water cylinder temp sensor	0	PAC-TH011TK2-E	
Boiler thermistor pair	0	PAC-TH012HT-E	



Air Conditioning | Heating
Ventilation | Controls



TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
User: Robert Griffin
Database version: 1.9.11.0
Print data:02/06/2025 18:58



TECHNICAL SELECTION

NX-Q-G06 /SL /0502P

INTEGRA unit for 4-pipe systems, air source for outdoor installation



Code	NX-Q-G06 /SL /0502P	
Version	SL	
Size	0502P	
Power supply	V/ph/Hz	400/3+N/50

1	TECHNICAL SELECTION	pg.3
1.1	Performance at design conditions	pg.3
1.2	Part load data	pg.5
1.3	Exchangers	pg.5
1.4	Fans	pg.6
1.5	Compressors	pg.6
1.6	Noise data	pg.7
1.7	Operating limits	pg.8
1.8	Electrical data	pg.9
1.9	Accessories	pg.9
1.10	Weight & dimensions	pg.11
1.11	Technical documentation - regulation (eu) no 813/2013 - heat pumps for space heating	pg.12

1 TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



AXIAL



HEATING



SCROLL

1.1 PERFORMANCE AT DESIGN CONDITIONS

RUNNING CONDITIONS

CHILLED WATER HEAT EX. USER SIDE

Fluid type		WATER
Glycol	%	0
Fouling factor	m ² K/kW	0.000

COOLING

Fluid inlet temperature (cooling mode)	°C	12.00
Fluid outlet temperature (cooling mode)	°C	6.00
Water flow	l/s	4.855
Pressure drop at the heat exchanger	kPa	14.2
Available unit head	kPa	178

COOLING + HEAT RECOVERY

Fluid inlet temperature (cooling + heat recovery)	°C	12.00
Fluid outlet temperature (cooling + heat recovery)	°C	6.00
Water flow	l/s	4.807
Pressure drop at the heat exchanger	kPa	13.9

WARM WATER HEAT EX. USER SIDE

Fluid		WATER
Glycol	%	0
Fouling factor	m ² K/kW	0.000

HEATING

Fluid inlet temperature (heating mode)	°C	45.00
Fluid outlet temperature (heating mode)	°C	50.00
Water flow	l/s	4.939
Pressure drop at the heat exchanger	kPa	14.7
Available unit head	kPa	179

COOLING + HEAT RECOVERY

Fluid inlet temperature (cooling + heat recovery mode)	°C	45.00
Fluid outlet temperature (cooling + heat recovery mode)	°C	50.00
Water flow	l/s	7.664
Pressure drop at the heat exchanger	kPa	35.4

OUTDOOR CONDITION

Air temperature (cooling mode)	°C	35.0
Air temperature (heating mode)	°C	-5.0

COOLING (EN 14511)

Cooling capacity	kW	122.3
Compressor power input	kW	38.34
Fans power input (cooling mode)	kW	2.40
Total power input	kW	41.30
EER	kW/kW	2.960
ESEER EN 14511	kW/kW	3.710

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
 Database version: 1.9.11.0
 User: Robert Griffin
 Print data: 02/06/2025 18:58
 Calculation type: EN 14511 - EN 14825

**NX-Q-G06 /SL /0502P**

AXIAL



HEATING



SCROLL

COOLING WITH HEAT RECOVERY (EN 14511 VALUE)

Cooling capacity	kW	121.9
Recovery heat exchanger capacity	kW	158.5
Total power input	kW	40.94
TER	kW/kW	6.848

HEATING (EN14511)

Total heating capacity	kW	91.00
Compressors power input (heating mode)	kW	37.38
Fan power input (heating mode)	kW	2.40
Total power input	kW	39.40
COP	kW/kW	2.310

SCOP**SCOP Official (Reg. 813/2013 EU)****LOW TEMPERATURE**

Type climate		Average
Temperature application	°C	35
Type flow		Fixed
Type Temperature		Variable
Bivalent temperature	°C	-7.0
PDesign	kW	100
Qhe	kWh	55820
SCOP		3.71
Performance η_s	%	145
Seasonal efficiency class (from D to A+++)		-

SCOP Editable (EN 14825)**LOW TEMPERATURE**

Type climate		Colder	Average	Warmer
Temperature application	°C	0.00	35.00	0.00
Type flow		-	Fixed	-
Type Temperature		-	Variable	-
Bivalent temperature	°C	0.0	-7.0	0.0
PDesign	kW	0.00	100	0.00
Qhe	kWh	0	55820	0
SCOP		0.00	3.71	0.00
Performance η_s	%	0	145	0
Seasonal efficiency class (from D to A+++)		-	-	-

Note

Any SCOP values different from what is reported in commercial documentations are due to the different configuration of the unit and/or different calculation parameters input by the user.

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



AXIAL



HEATING



SCROLL

1.2 PART LOAD DATA

COOLING PARTIAL LOADS

Load	%	100.0	90.0	80.0	70.0	60.0	50.0	<i>40.0</i>	<i>30.0</i>	<i>20.0</i>	<i>10.0</i>
Outdoor air temperature	°C	35.0	35.0	35.0	35.0	35.0	35.0	<i>35.0</i>	<i>35.0</i>	<i>35.0</i>	<i>35.0</i>
Cooling load	kW	122	110	98	86	73	61	<i>49</i>	<i>37</i>	<i>25</i>	<i>12</i>
Fans power input (cooling mode)	kW	2.40	2.17	1.93	1.70	1.47	1.24	<i>1.01</i>	<i>0.79</i>	<i>0.57</i>	<i>0.34</i>
Total power input	kW	41.30	37.30	33.40	29.40	25.40	21.40	<i>17.60</i>	<i>13.70</i>	<i>9.840</i>	<i>5.940</i>
Temp. evaporator inlet	°C	12.00	11.40	10.80	10.19	9.59	8.99	<i>8.89</i>	<i>8.89</i>	<i>8.89</i>	<i>8.89</i>
Temp. evaporator outlet	°C	6.00	6.00	6.00	6.00	6.00	6.00	<i>6.00</i>	<i>6.00</i>	<i>6.00</i>	<i>6.00</i>
Evaporator water flow	l/s	4.854	4.854	4.854	4.854	4.854	4.854	<i>4.854</i>	<i>4.854</i>	<i>4.854</i>	<i>4.854</i>
EER	kW/kW	2.960	2.950	2.930	2.910	2.890	2.850	<i>2.780</i>	<i>2.680</i>	<i>2.490</i>	<i>2.050</i>
Note	Note: italics texts mean integrated values under minimum step										

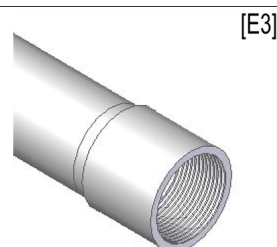
HEATING PART LOAD

Load	%	100.0	90.0	80.0	70.0	60.0	50.0	<i>40.0</i>	<i>30.0</i>	<i>20.0</i>	<i>10.0</i>
Outdoor air temp.	°C	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	<i>-5.0</i>	<i>-5.0</i>	<i>-5.0</i>	<i>-5.0</i>
Heating load	kW	91	82	73	64	55	46	<i>36</i>	<i>27</i>	<i>18</i>	<i>9</i>
Total power input	kW	39.40	35.60	31.80	28.00	24.20	20.40	<i>16.80</i>	<i>13.10</i>	<i>9.390</i>	<i>5.700</i>
Condenser input temperature	°C	45.00	45.50	46.00	46.49	46.99	47.49	<i>47.52</i>	<i>47.52</i>	<i>47.52</i>	<i>47.52</i>
Condenser output temperature	°C	50.00	50.00	50.00	50.00	50.00	50.00	<i>50.00</i>	<i>50.00</i>	<i>50.00</i>	<i>50.00</i>
Condenser fluid flow	l/s	4.939	4.939	4.939	4.940	4.940	4.940	<i>4.940</i>	<i>4.940</i>	<i>4.940</i>	<i>4.940</i>
COP	kW/kW	2.310	2.300	2.290	2.270	2.250	2.220	<i>2.170</i>	<i>2.090</i>	<i>1.940</i>	<i>1.600</i>
Note	Note: italics texts mean integrated values under minimum step										

1.3 EXCHANGERS

CHILLED WATER HEAT EX. USER SIDE

Typology	PLATE	
Quantity	N°	1
Type of connections	[E3] - Female threaded pipe (EN 10226 - Rp: internal cylindrical thread)	
Diameter of connections	2"1/2	
Min flow	l/s	3.889
Max flow	l/s	11.03
Heat exchanger water content	l	12.2
Minimum water content admitted in the plant	l	1480



The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



AXIAL



HEATING

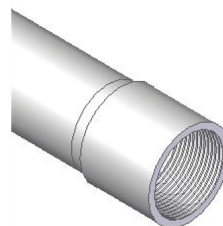


SCROLL

WARM WATER HEAT EX. USER SIDE

Typology		PLATE
Quantity	N°	1
Type of connections		[E3] - Female threaded pipe (EN 10226 - Rp: internal cylindrical thread)
Diameter of connections		2"1/2
Min flow	l/s	3.889
Max flow	l/s	11.03
Water content	l	12.2

[E3]



1.4 FANS

Fans type		AXIAL AC
Quantity	N°	12
Total fans power input	kW	2.40
F.L.I.	kW	12x0.2
F.L.A.	A	12x1.1

COOLING

Total fans power input	kW	2.40
Air flow	m³/s	11.77
Available static pressure	Pa	0

HEATING

Total fans power input	kW	2.40
Air flow	m³/s	11.77
Fan available static pressure	Pa	0

1.5 COMPRESSORS

COMPRESSORS

Compressor type		SCROLL
Compressors nr.	N°	2
No. Circuits	N°	2
Number of capacity steps	N°	2
Min. capacity step	%	50
Regulation		STEPS
Oil charge	kg	10.6
F.L.I. - Max absorbed power	kW	2x27
F.L.A. - Max absorbed current	A	2x42.5
L.R.A. - Locked rotor amperes for single compressor	A	2x210

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



AXIAL



HEATING



SCROLL

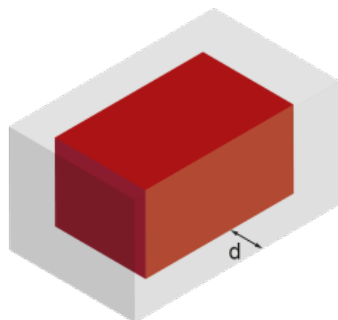
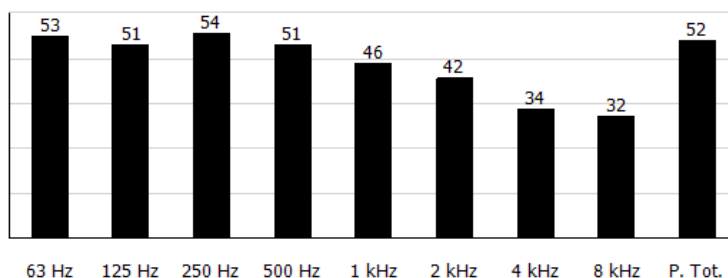
REFRIGERANT

Refrigerant		R454B
Theoretical refrigerant charge	kg	53.5
GWP100 value (from IPCC AR5)		467
CO2 equivalent	t	25.0

1.6 NOISE DATA

SOUND DATA COLD

Frequencies	Hz	63	125	250	500	1000	2000	4000	8000
Sound power (spectrum)	dB	85	83	86	83	78	74	66	64
Total sound power level in cooling	dB(A)	84							
Sound pressure level (spectrum)	dB	53	51	54	51	46	42	34	32
Total sound Pressure	dB(A)	52							



SOUND DATA OUTDOOR HOT

Total sound power level in heating	dB(A)	84
------------------------------------	-------	----

Note

Distance	m	10
Note	Average sound pressure level at 10 m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. Sound power on the basis of measurements taken in compliance with ISO 9614.	

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



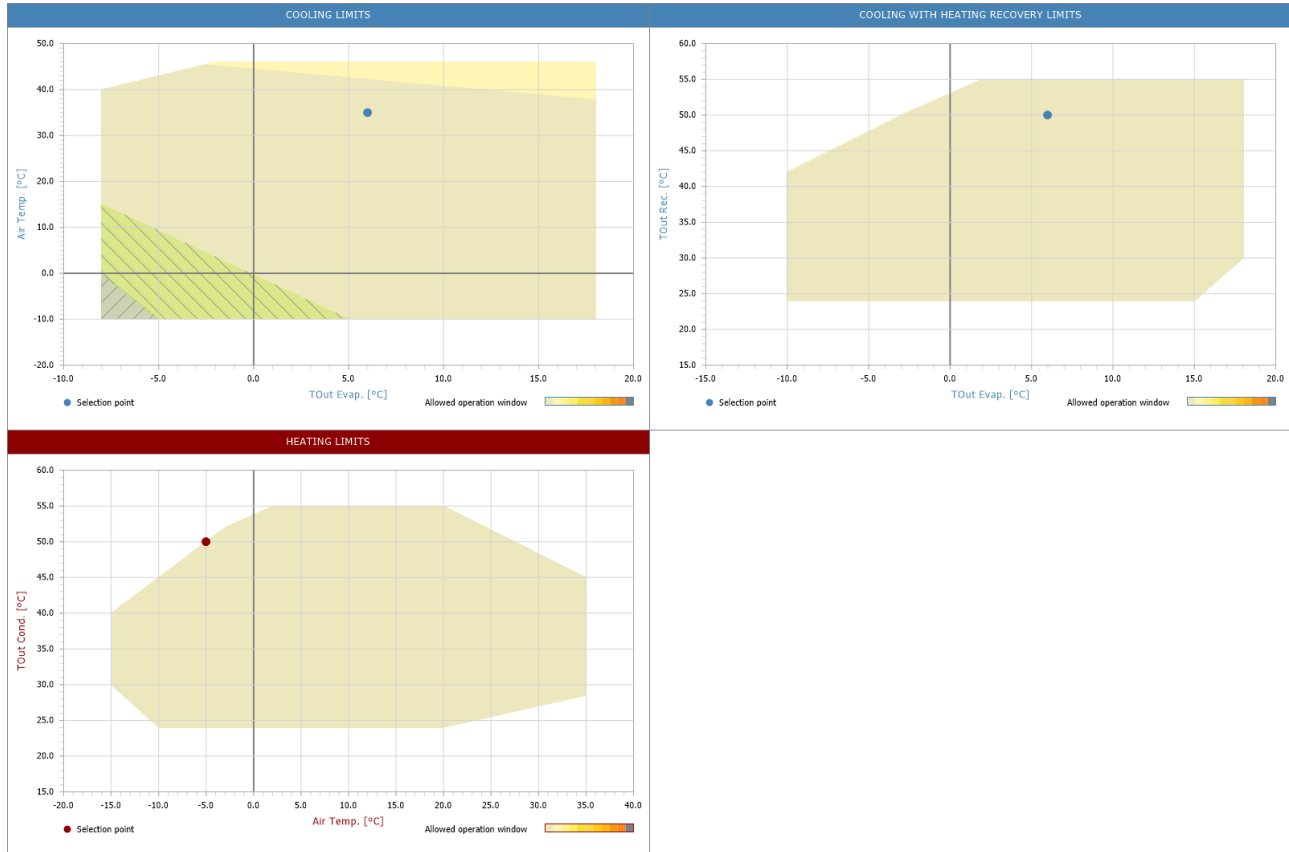
NX-Q-G06 /SL /0502P

AXIAL

HEATING

SCROLL

1.7 OPERATING LIMITS



COOLING LIMITS	COOLING WITH HEATING RECOVERY LIMITS	HEATING LIMITS
<div>821-DVV2F</div> <div>819-DVVF</div>		

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825

**NX-Q-G06 /SL /0502P****AXIAL****HEATING****SCROLL**

1.8 ELECTRICAL DATA

Power supply	V/ph/Hz	400/3+N/50
F.L.I. - Max absorbed power	kW	61.30
F.L.A. - Max absorbed current	A	107
S.A. - Inrush current	A	275.1

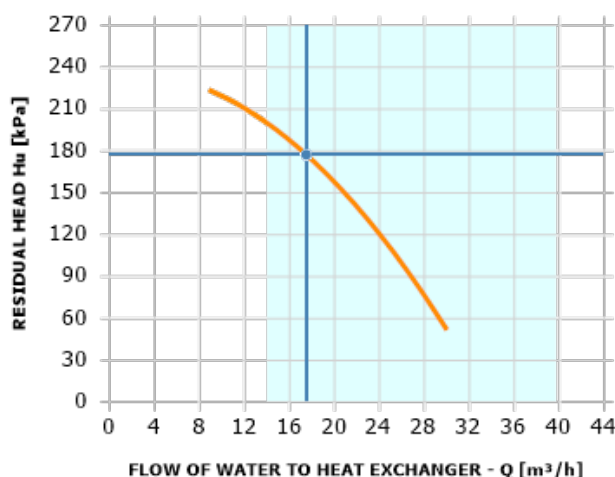
1.9 ACCESSORIES

HYDRONIC GROUPS**CHILLED WATER HEAT EX. USER SIDE**

Accessory code	4711	
Accessory description	EV - 2 PUMPS 2P LH (FIX SPEED)	
Min flow	l/s	3.889
Max flow	l/s	11.03

COOLING

Water flow	l/s	4.855
Available unit head	kPa	178

GRAPH OF RESIDUAL PRESSURE HEAD**WARM WATER HEAT EX. USER SIDE**

Accessory code	4771	
Accessory description	CD - 2 PUMPS 2P LH (FIX SPEED)	
Min flow	l/s	3.889
Max flow	l/s	11.03

HEATING

Water flow	l/s	4.939
Available unit head	kPa	179

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



AXIAL

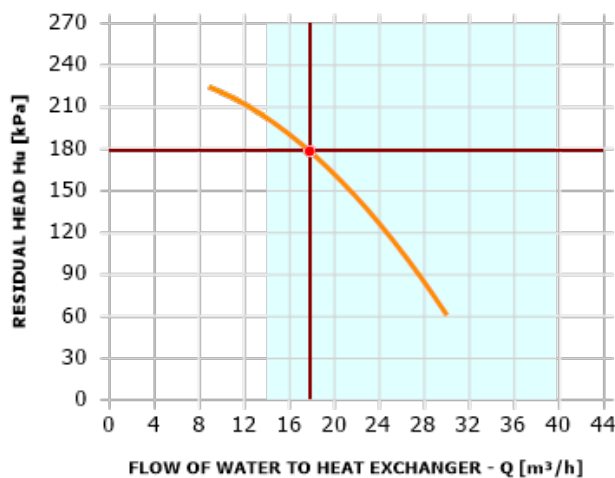


HEATING



SCROLL

GRAPHIC RESIDUAL PRESSURE HEAD



DIMENSION AND ELECTRIC DATA VARIATION

FLA hydronic group	A	9
FLI hydronic group	kW	4.400
Additional weight	kg	300
Additional length	mm	0
Additional width	mm	0
Additional height	mm	0
Additional Sound pwr.	dB(A)	1.0
Buffer tank	l	0.00

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0
User: Robert Griffin
Print data: 02/06/2025 18:58
Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



AXIAL



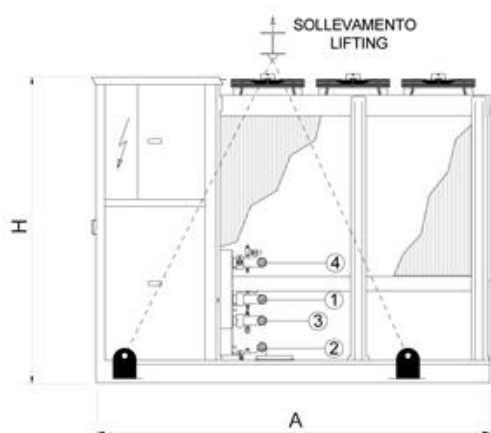
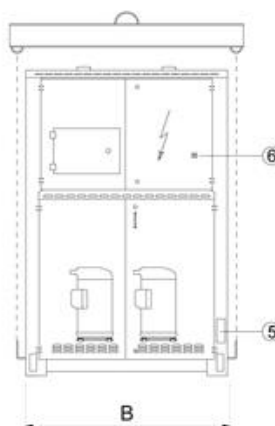
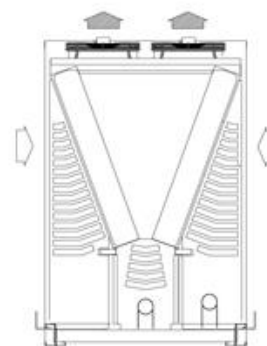
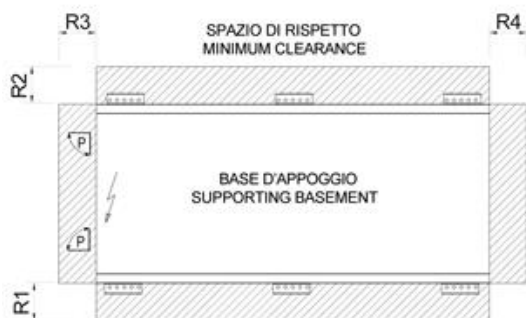
HEATING



SCROLL

1.10 WEIGHT & DIMENSIONS

A	mm	4500
B	mm	1350
H	mm	2070
Operating weight	kg	1930
R1	mm	1000
R2	mm	1000
R3	mm	1000
R4	mm	1000



- ① ENTRATA ACQUA EVAPORATORE
EVAPORATOR WATER INLET
- ② USCITA ACQUA EVAPORATORE
EVAPORATOR WATER OUTLET
- ③ ENTRATA ACQUA CONDENSATORE
CONDENSER WATER INLET
- ④ USCITA ACQUA CONDENSATORE
CONDENSER WATER OUTLET
- ⑤ INGRESSO LINEA ELETTRICA
POWER INLET
- ⑥ MANIGLIA SEZIONATORE GENERALE
MAIN ISOLATOR HANDLE

- ENTRATA ARIA
AIR INLET
- USCITA ARIA
AIR OUTLET

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

TECHNICAL SELECTION

Software version: ELCA World v. 1.8.11.0
Database version: 1.9.11.0

Calculation type: EN 14511 - EN 14825



NX-Q-G06 /SL /0502P



TECHNICAL DOCUMENTATION - REGULATION (EU) No 813/2013 - Heat pumps for space heating

NX-Q-G06 /SL /0502P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		fixed
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at T_{designh}	Prated = P_{designh}	[kW]	100
Seasonal space heating energy efficiency	η_s	[%]	145
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating with outdoor temperature T _j = - 7 °C	P _d h	[kW]	88.7
Declared capacity for heating with outdoor temperature T _j = +2 °C	P _d h	[kW]	54.0
Declared capacity for heating with outdoor temperature T _j = +7 °C	P _d h	[kW]	69.3
Declared capacity for heating with outdoor temperature T _j = +12 °C	P _d h	[kW]	79.9
Declared capacity for heating with outdoor temperature T _j = Bivalent temperature	P _d h	[kW]	88.7
Declared capacity for heating with outdoor temperature T _j = Operation limit temperature	P _d h	[kW]	84.6
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _d h	[kW]	-
Bivalent temperature	T _{biv}	[°C]	-7
Degradation coefficient	C _d h	-	0.90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared coefficient of performance with outdoor temperature T _j = - 7 °C	COP _d	-	3.02
Declared coefficient of performance with outdoor temperature T _j = +2 °C	COP _d	-	3.67
Declared coefficient of performance with outdoor temperature T _j = +7 °C	COP _d	-	4.82
Declared coefficient of performance with outdoor temperature T _j = +12 °C	COP _d	-	5.69
Declared coefficient of performance with outdoor temperature T _j = Bivalent temperature	COP _d	-	3.02
Declared coefficient of performance with outdoor temperature T _j = Operation limit temperature	COP _d	-	2.82
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.916
Standby mode	PSB	[kW]	0.040
Crankcase heater mode	PCK	[kW]	0.204
Supplementary heater			
Nominal heating capacity	P _{sup}	[kW]	15.6
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	84
Annual electricity consumption for heating	QHE	[kWh]	55820
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Q _{air} source	[m³/h]	42372.01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Q _{water/brine} source	[m³/h]	-

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

NOTE: Technical data referred to selected unit.

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.6.0

