

Hi-Pres® Cooling Products Catalogue



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Marine Chillers, QCM

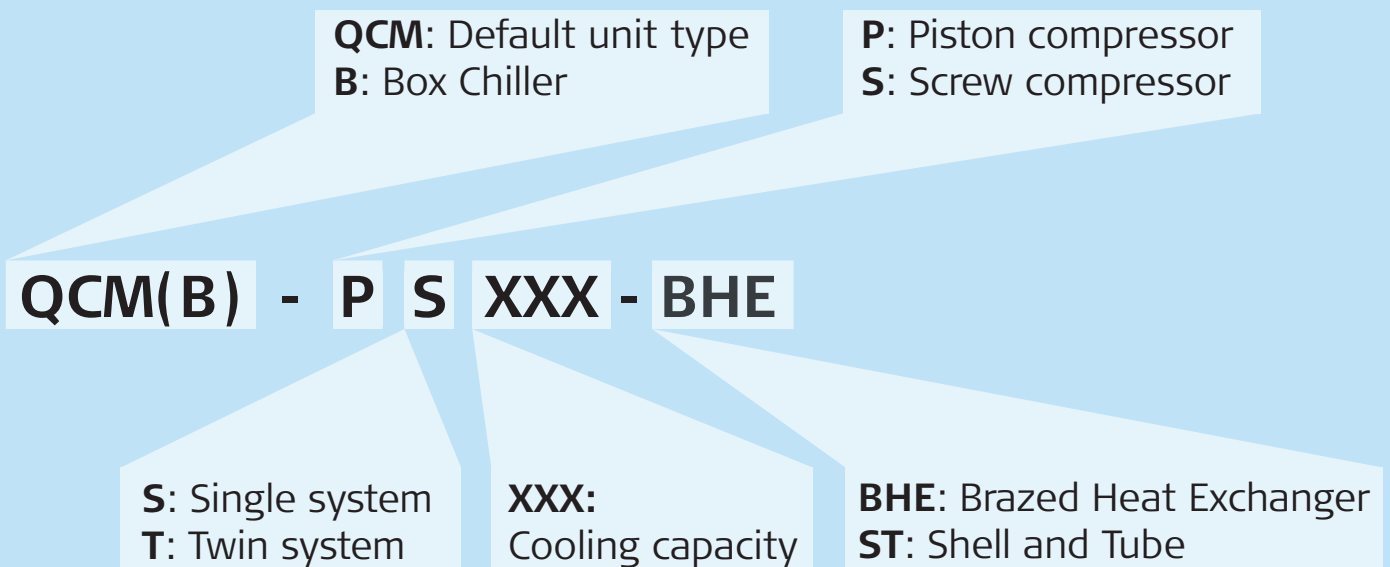
INTRODUCTION

The individual Marine chiller is designed for a cooling capacity ranging from 30-1500kW. All system components are dimensioned and calculated for optimal performance at the required design parameters. The performance of the cooling plants depend on how the actual system parameters compare to the system design parameters.

The specially developed Novenco control system allows for optimal adjustment of the cooling capacity. The unit output is accurately controlled within the range specified for individual compressors. In order to prevent the risk of low capacity operation, the unit automatically will stop when the output demand drops below minimum compressor capacity and will restart after a preset delay time when the output demand again rises above the minimum compressor capacity.

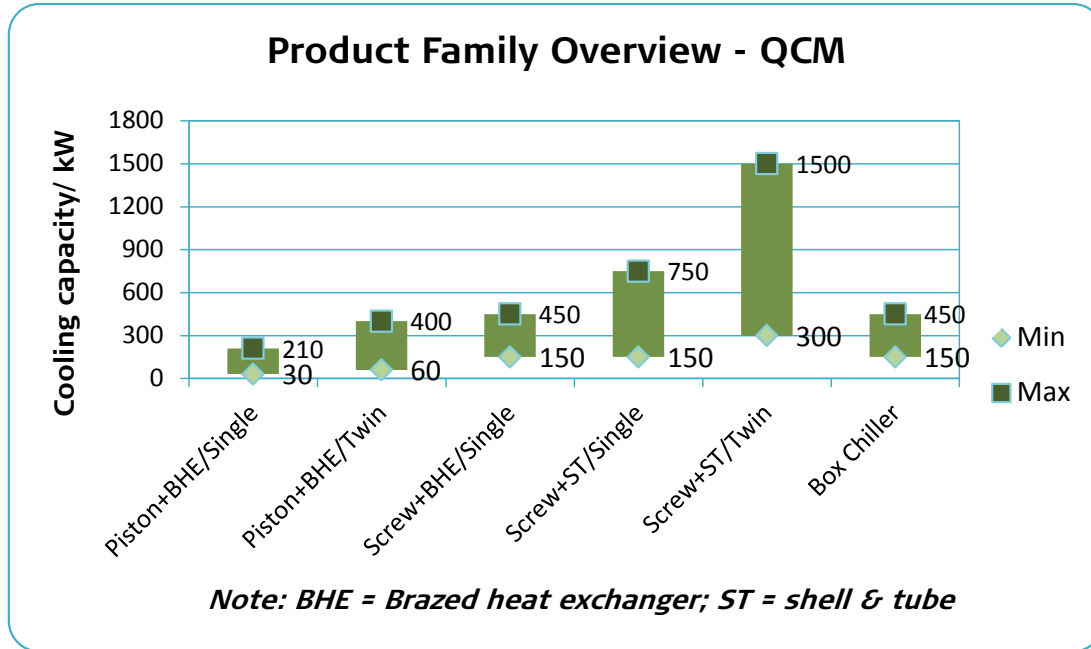
The unit has passed a rigorous quality inspection and testing procedure prior to final factory approval and packing.

NOMENCLATURE



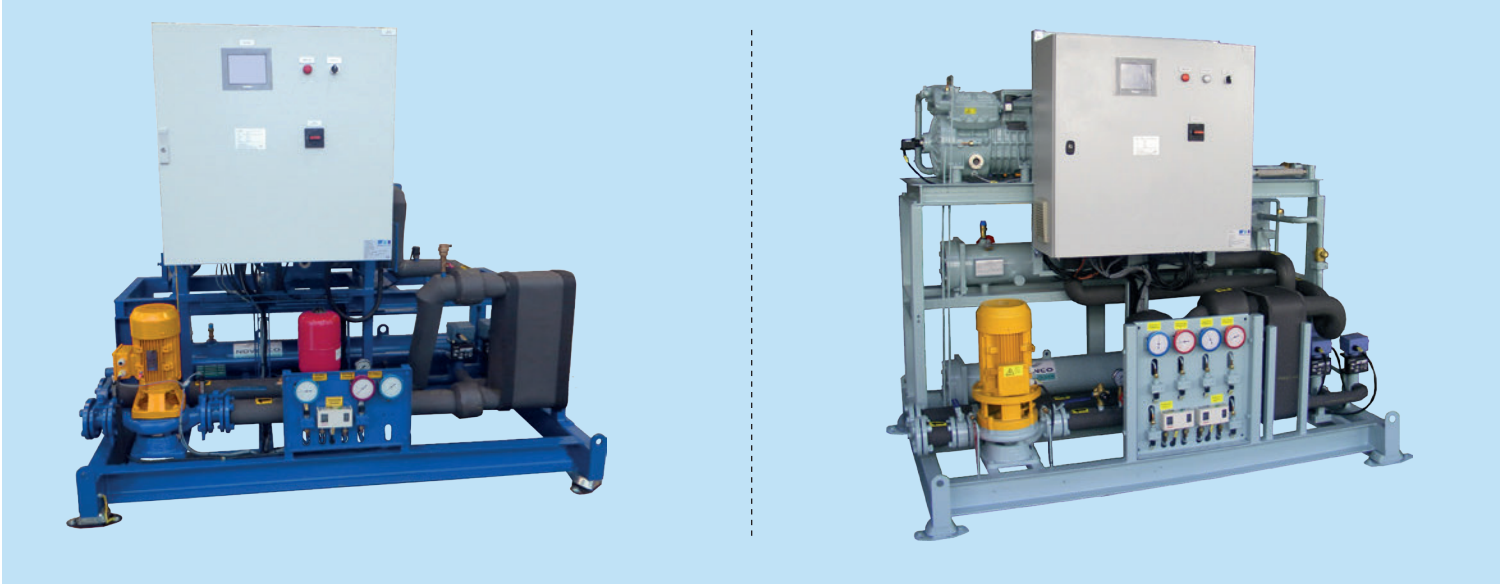
Note: QCM(B) = Cooling Chiller Marine (Box)

Product family overview



Marine Chillers, QCM

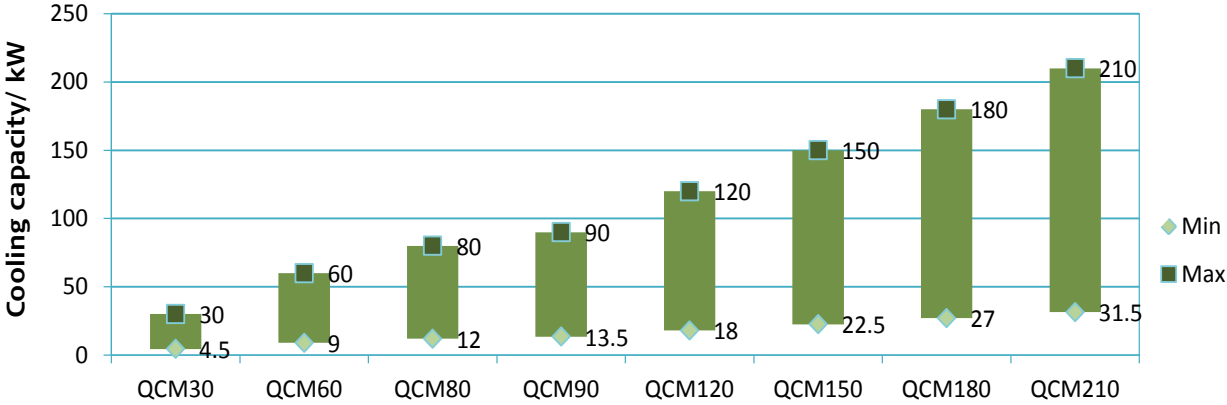
QCM-P-(S,T)-BHE



Single

Twin

Capacity overview for QCM-PS-BHE Chiller 6/12[°C]



*Note: Unit code covers 50Hz, 60Hz - 6/12 range, 60Hz - 8/12 range
As for QCM-PT-BHE, max will double while min remain*

ADVANTAGES AND APPLICATION

- Compact marine chiller, Piston compressor
- Designed optimized for marine application, compact & robust;
- Highly accurate capacity and temperature control system suited for AC as well as MGO/MDO cooling;
- High quality components for maximum reliability, endurance and minimum maintenance;
- SIEMENS PLC control of all unit functions.
- Touch screen interface for easy unit operation and status overview;
- Control of up to 4 independent chilled water consumers;
- Available both as single and twin versions for improved redundancy

SCOPE OF SUPPLY

Standard supply

- Semi-hermetic compressor, 400V/50Hz, 440/690V/60Hz
- BHE water chiller
- ST condenser, Sea or freshwater
- SIEMENS electronic expansion valve
- Desmi chilled water pump
- Danfoss filters
- Software factory pre-load and function test.

Standard options

- Manometers for chilled & cooling water
- Thermometers for chilled & cooling water
- Flexible connections for chilled & cooling water
- First charge of refrigerant and lubrication oil

TECHNICAL SPECIFICATIONS - SIZE

440V/60Hz R404A	Cooling capacity [kW]	Overall unit dimension				Chilled water connections	Condenser connections
Unit code		Height [mm]	Width [mm]	Length [mm]	Dry weight [Kg]	Flange type	
QCM30-60/8	30	1737	1200	1600	430	DN32/PN10	DN50
QCM60-60/8	60	1737	1200	1600	430	DN32/PN10	DN50
QCM80-60/8	80	1737	1200	1600	550	DN40/PN10	DN65
QCM90-60/8	90	1737	1280	1600	550	DN40/PN10	DN65
QCM120-60/8	120	1737	1280	1600	600	DN40/PN10	DN80
QCM150-60/8	150	1737	1280	1600	700	DN40/PN10	DN65
QCM180-60/8	180	1737	1280	1600	800	DN40/PN10	DN64
QCM210-60/8	210	1737	1280	1600	850	DN50/PN10	DN80

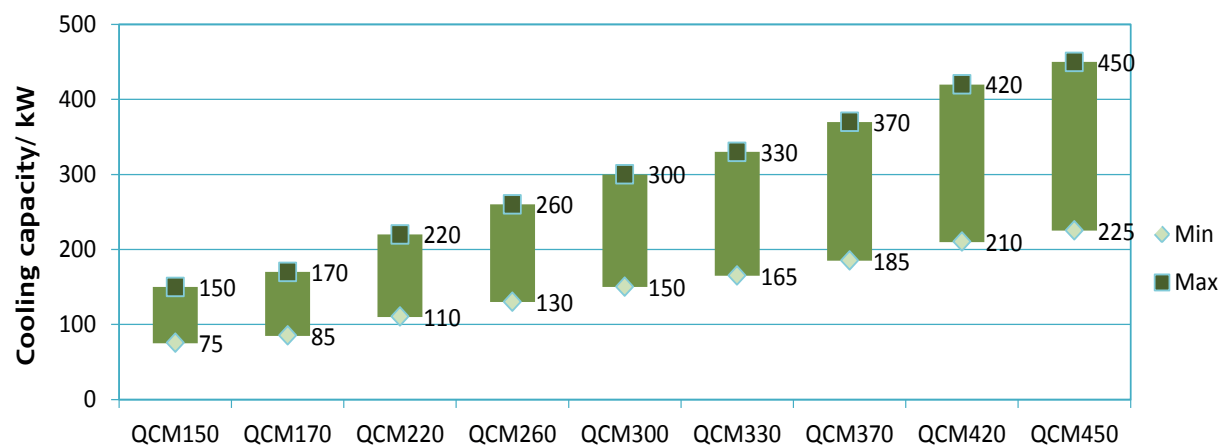
400V/50Hz R404A	Cooling capacity [kW]	Overall unit dimension				Chilled water connections	Condenser connections
Unit code		Height [mm]	Width [mm]	Length [mm]	Dry weight [Kg]	Flange type	
QCM30-50/8	30	1737	1200	1600	430	DN32/PN10	DN50
QCM60-50/8	60	1737	1200	1600	550	DN32/PN10	DN65
QCM90-50/8	90	1737	1200	1600	700	DN40/PN10	DN65
QCM120-50/8	120	1737	1200	1600	850	DN40/PN10	DN65
QCM150-50/8	150	1737	1280	1600	1100	DN40/PN10	DN80
QCM180-50/8	180	1737	1280	1600	1200	DN40/PN10	DN80
QCM210-50/8	210	1737	1280	1600	1200	DN50/PN10	DN80

Marine Chillers, QCM

QCM-SS-BHE



Capacity overview for QCM-SS-BHE Chiller 6/12[°C]



Note: Unit code covers 50 & 60Hz range

ADVANTAGES AND APPLICATION

- Compact marine chiller with screw compressor
- Designed optimized for marine application, compact & robust;
- Highly accurate capacity and temperature control system suited for AC & general chilled water application;
- High quality components for maximum reliability, endurance and minimum maintenance;
- SIEMENS PLC control of all unit functions.
- Touch screen interface for easy unit operation and status overview;
- Control of up to 4 independent chilled water consumers;
- Available both as single and twin versions for improved redundancy

SCOPE OF SUPPLY

Standard supply

- Compact screw compressor, 400V/50Hz, 440/690V/60Hz
- BHE water chiller
- ST condenser, Sea or freshwater
- SIEMENS electronic expansion valve
- Desmi chilled water pump (optional)
- Danfoss filters
- Software factory pre-load and function test

Standard options

- Manometers for chilled & cooling water
- Thermometers for chilled & cooling water
- Flexible connections for chilled & cooling water
- First charge of refrigerant and lubrication oil

TECHNICAL SPECIFICATIONS - SIZE & CONSUMPTION

440V / 60Hz R407C	Cooling capacity [kW]	Overall unit dimension				Connections Chilled water	Condenser connections
Unit code		Height [mm]	Width [mm]	Length [mm]	Dry weight [Kg]	Flange type	
QCM150-FW-R407C-440/60-6-S	150	2070	1420	1880	878.8	DN80	DN100
QCM170-FW-R407C-440/60-6-S	170	2070	1420	1880	1132.7	DN80	DN100
QCM220-FW-R407C-440/60-6-S	220	2070	1420	1880	1185.2	DN80	DN100
QCM260-FW-R407C-440/60-6-S	260	2070	1420	1880	1210.7	DN80	DN100
QCM300-FW-R407C-440/60-6-S	300	2070	1420	1970	1334.7	DN80	DN125
QCM330-FW-R407C-440/60-6-S	330	2070	1420	1970	1733.2	DN80	DN125
QCM370-FW-R407C-440/60-6-S	370	2070	1420	1970	1906.7	DN80	DN125
QCM420-FW-R407C-440/60-6-S	420	2070	1420	1970	1940.7	DN80	DN125
QCM450-FW-R407C-440/60-6-S	450	2070	1420	1970	1941.5	DN80	DN125

440V / 60Hz R407C	QCM consumption						
Unit code	Comp [kW]	Comp [Amp]	Condenser flow [m³]	Condenser water T _{in} °C	Condenser water T _{out} °C	Condenser water Δ°C	Chilled water flow [m³]
QCM150-FW-R407C-440/60-6-S	52.6	74.2	37	36	40.76	37.38	22.69
QCM170-FW-R407C-440/60-6-S	61.1	85.4	42	36	40.78	34.25	25.72
QCM220-FW-R407C-440/60-6-S	67.2	107.3	52	36	40.80	35.71	33.28
QCM260-FW-R407C-440/60-6-S	91.5	123.6	60	36	41.90	34.24	39.33
QCM300-FW-R407C-440/60-6-S	105.3	142.7	76	36	40.63	37.58	45.38
QCM330-FW-R407C-440/60-6-S	113.3	157.8	85	36	40.53	38.77	49.92
QCM370-FW-R407C-440/60-6-S	129.4	178.9	90	36	40.82	36.75	55.97
QCM420-FW-R407C-440/60-6-S	145.6	200.0	105	36	40.68	41.05	63.53
QCM450-FW-R407C-440/60-6-S	186.6	262	80	36	42.92	41.25	68.07

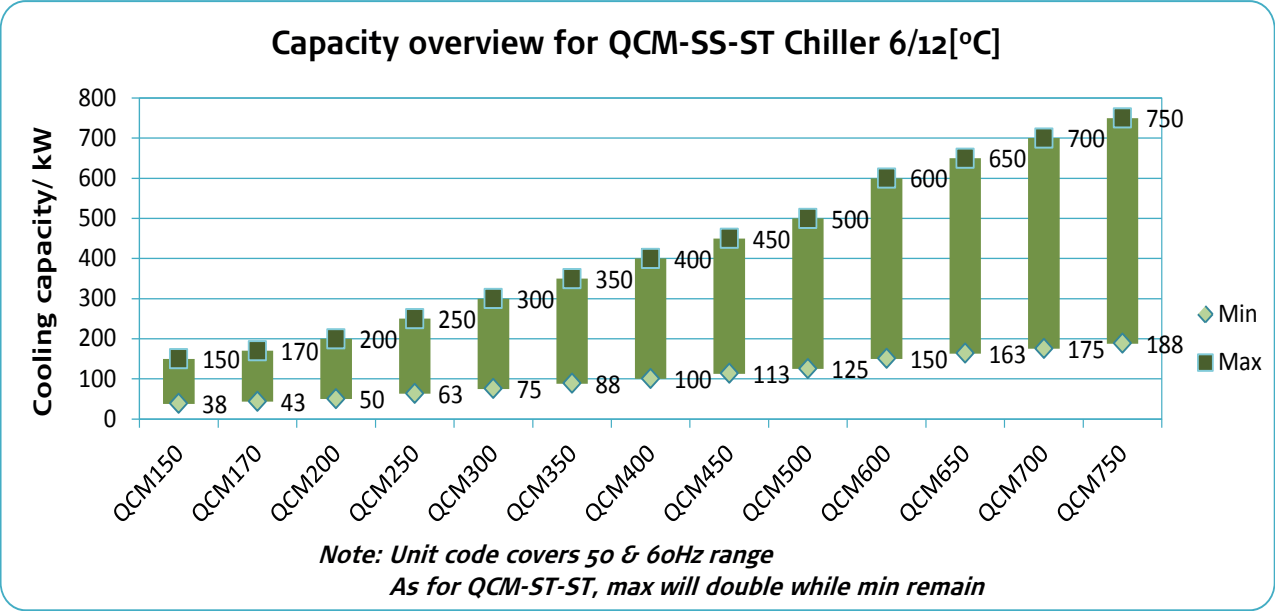
Marine Chillers, QCM

QCM-S(S,T)-ST



Single

Twin



ADVANTAGES AND APPLICATION

- Compact marine chiller with screw compressor
- Designed optimized for marine application, compact & robust;
- Highly accurate capacity and temperature control system suited for AC as well as MGO/MDO cooling;
- High quality components for maximum reliability, endurance and minimum maintenance;
- SIEMENS PLC control of all unit functions;
- Touch screen interface for easy unit operation and status overview;
- Control of up to 4 independent chilled water consumers;
- Basic system allows for 1-6 individual chillers to be easily connected to form a sequence controlled system;
- Available both as single and twin versions for improved redundancy

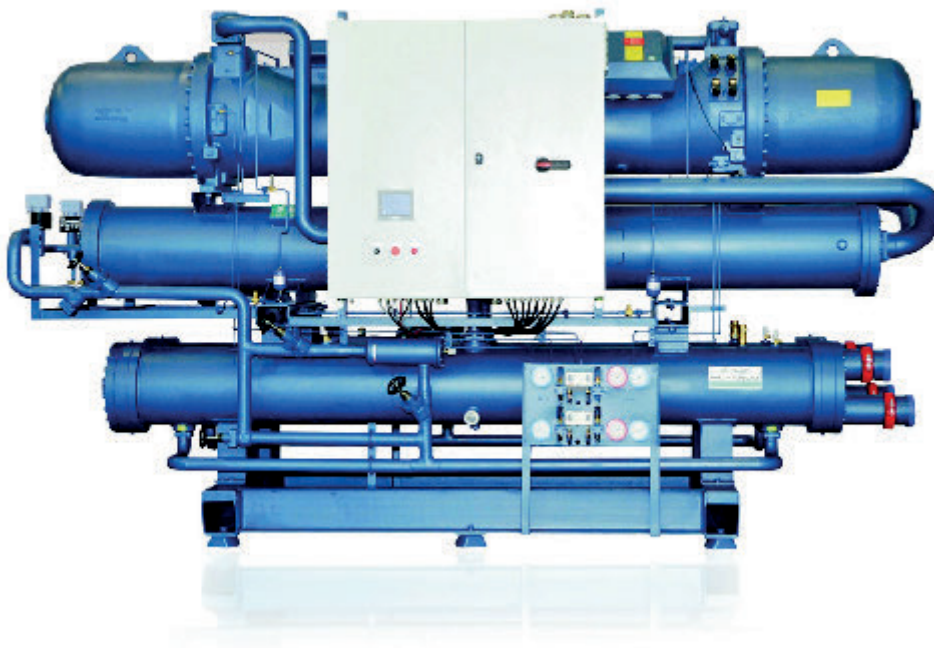
SCOPE OF SUPPLY

Standard supply

- Compact screw compressor, 400V/50Hz, 440/690V/60Hz
- ST water chiller (single or twin circuit)
- ST condenser, Sea or freshwater
- SIEMENS electronic expansion valve
- Danfoss filters
- Software factory pre-load and function test

Standard options

- Manometers for chilled & cooling water
- Thermometers for chilled & cooling water
- Flexible connections for chilled & cooling water
- First charge of refrigerant and lubrication oil



Marine Chillers, QCM

TECHNICAL SPECIFICATIONS - SIZE & CONSUMPTION

440V / 60Hz R407C	Cooling capacity [kW]	Overall unit dimension				Chilled water connections	Condenser connections
Unit code		Height [mm]	Width [mm]	Length [mm]	Dry weight [Kg]	Victaulic type	
QCM150-FW-R407C-440/60-6-S	150	1983	1073	2720	1088	3"(DN80)	4"(DN100)
QCM170-FW-R407C-440/60-6-S	170	2028	1073	3670	1350	4"(DN100)	4"(DN100)
QCM220-FW-R407C-440/60-6-S	220	2111	1156	3780	1614	4"(DN100)	5"(DN125)
QCM260-FW-R407C-440/60-6-S	260	2111	1156	3780	1630	4"(DN100)	5"(DN125)
QCM300-FW-R407C-440/60-6-S	300	2165	1156	3807	1790	6"(DN150)	5"(DN125)
QCM330-FW-R407C-440/60-6-S	330	2293	1156	3807	2292	6"(DN150)	5"(DN125)
QCM370-FW-R407C-440/60-6-S	370	2293	1156	3807	2392	6"(DN150)	5"(DN125)
QCM420-FW-R407C-440/60-6-S	420	2293	1156	3807	2420	6"(DN150)	5"(DN125)
QCM450-FW-R407C-440/60-6-S	450	2293	1156	3807	2455	6"(DN150)	5"(DN125)
QCM500-FW-R407C-440/60-6-S	500	2293	1156	3907	2470	6"(DN150)	5"(DN125)
QCM550-FW-R407C-440/60-6-S	550	2487	1156	3947	3092	8"(DN200)	5"(DN125)
QCM600-FW-R407C-440/60-6-S	600	2587	1256	3947	3452	8"(DN200)	6"(DN150)
QCM650-FW-R407C-440/60-6-S	650	2587	1256	3947	3526	8"(DN200)	6"(DN150)
QCM700-FW-R407C-440/60-6-S	700	2587	1256	3947	3647	8"(DN200)	6"(DN150)
QCM750-FW-R407C-440/60-6-S	750	2587	1256	4497	3697	8"(DN200)	6"(DN150)

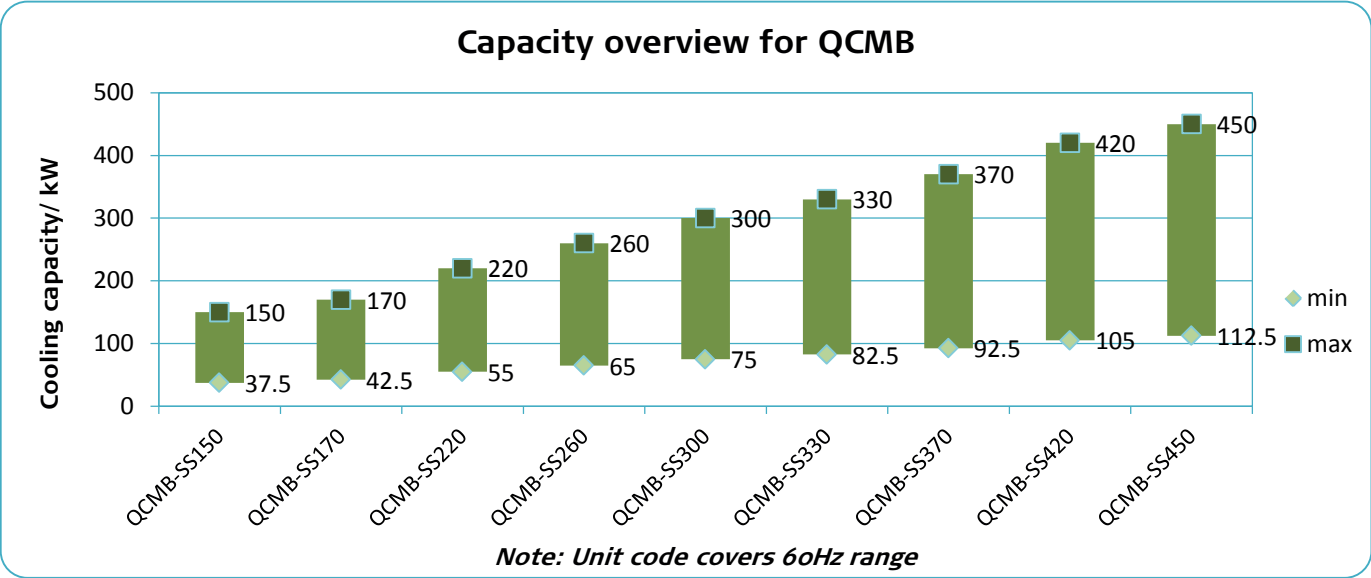
440V / 60Hz R407C	Cooling capacity [kW]	Overall unit dimension				Chilled water connections	Condenser connections
Unit code		Height [mm]	Width [mm]	Length [mm]	Dry weight [Kg]	Victaulic type	
QCM300-FW-R407C-440/60-6-T	300	2037	1396	3780	1816	6"(DN150)	4"(DN100)
QCM340-FW-R407C-440/60-6-T	340	2082	1396	3780	2077	6"(DN150)	4"(DN100)
QCM440-FW-R407C-440/60-6-T	440	2165	1562	3780	2625	6"(DN150)	5"(DN125)
QCM520-FW-R407C-440/60-6-T	520	2165	1562	3780	2659	6"(DN150)	5"(DN125)
QCM600-FW-R407C-440/60-6-T	600	2217	1562	3807	2787	8"(DN200)	5"(DN125)
QCM660-FW-R407C-440/60-6-T	660	2345	1562	4357	3558	8"(DN200)	5"(DN125)
QCM740-FW-R407C-440/60-6-T	740	2345	1562	4357	3688	8"(DN200)	5"(DN125)
QCM840-FW-R407C-440/60-6-T	840	2596	1562	4357	3931	8"(DN200)	5"(DN125)
QCM900-FW-R407C-440/60-6-T	900	2596	1562	4357	4147	8"(DN200)	5"(DN125)
QCM1000-FW-R407C-440/60-6-T	1000	2596	1562	4457	4173	8"(DN200)	5"(DN125)
QCM1100-FW-R407C-440/60-6-T	1100	2738	1562	4847	4922	8"(DN200)	5"(DN125)
QCM1200-FW-R407C-440/60-6-T	1200	2838	1762	4847	5597	8"(DN200)	6"(DN150)
QCM1300-FW-R407C-440/60-6-T	1300	2838	1762	4847	5685	8"(DN200)	6"(DN150)
QCM1400-FW-R407C-440/60-6-T	1400	2920	1762	4847	6003	10"(DN250)	6"(DN150)
QCM1500-FW-R407C-440/60-6-T	1500	2920	1762	4847	6055	10"(DN250)	6"(DN150)

QCM consumption						
Compressor [kW]	Compressor [Amp]	Condenser flow [m³]	Condenser water T_{in} °C	Condenser water T_{out} °C	Condenser water Δ °C	Chilled water flow [m₃]
52.6	74.2	35.2	36	41	27.6	22.0
61.1	85.4	40.1	36	41	27.5	25.0
67.2	107.3	49.9	36	41	27.1	32.3
91.5	123.6	61.0	36	41	26.1	38.2
105.3	142.7	70.4	36	41	25.1	44.0
113.3	157.8	64.2	36	42	47.9	48.4
129.4	178.9	72.3	36	42	47.3	54.3
145.6	200.0	81.9	36	42	47.0	61.7
186.6	262.0	92.1	36	42	46.0	66.1
163.4	232.0	96.0	36	42	45.8	73.4
182.6	251.0	106.0	36	42	47.1	80.7
233.0	316.0	120.5	36	42	44.6	88.1
213.0	291.0	124.9	36	42	44.6	95.4
261.0	354.0	139.1	36	42	43.3	102.8
242.0	329.0	143.6	36	42	43.5	110.1

QCM unit consumption (based on each single parts)						
Compressor [kW]	Compressor [Amp]	Condenser flow [m³]	Condenser water T_{in} °C	Condenser water T_{out} °C	Condenser water Δ °C	Chilled water flow [m³]
52.6	74.2	35.2	36	41	27.6	44.0
61.1	85.4	40.1	36	41	27.5	49.9
67.2	107.3	49.9	36	41	27.1	64.6
91.5	123.6	61.0	36	41	26.1	76.3
105.3	142.7	70.4	36	41	25.1	88.1
113.3	157.8	64.2	36	42	47.9	96.9
129.4	178.9	72.3	36	42	47.3	108.6
145.6	200.0	81.9	36	42	47.0	123.3
186.6	262.0	92.1	36	42	46.0	132.1
163.4	232.0	96.0	36	42	45.8	146.8
182.6	251.0	106.0	36	42	47.1	161.5
233.0	316.0	120.5	36	42	44.6	176.2
213.0	291.0	124.9	36	42	44.6	190.8
261.0	354.0	139.1	36	42	43.3	205.5
242.0	329.0	143.6	36	42	43.5	220.2

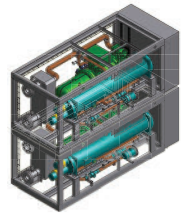
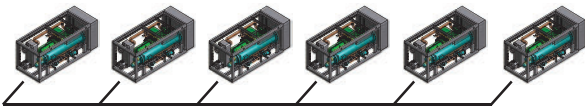
Marine Chillers, QCM

QCMB - Marine Box Chillers



ADVANTAGES AND APPLICATION

- Compact marine chiller with box enclosure
- Designed optimized for marine application, compact & robust;
- Highly accurate capacity and temperature control system perfectly suited for AC & general chilled water application;
- High quality components for maximum reliability, efficiency, endurance and minimum maintenance;
- Easy connection of up to 6 chillers in sequence - standard onboard option.
- SIEMENS PLC control of all unit functions.
- Full color touch screen interface for easy unit operation and status overview; remote device control option built in as standard;
- Control of up to 4 independent chilled water consumers per unit;
- Designed to be arranged as "twin" module, units arranged with one placed on top



SCOPE OF SUPPLY

Standard supply

- Compact screw compressor, 400V/50Hz, 440/690V/60Hz
- BHE water chiller
- ST condenser, Sea or freshwater
- SIEMENS electronic expansion valve
- Desmi chilled water pump (optional)
- Danfoss filters
- Software factory pre-load and function test

Standard options

- Manometers for chilled & cooling water
- Thermometers for chilled & cooling water
- Flexible connections for chilled & cooling water
- First charge of refrigerant and lubrication oil

Technical Specifications

Name code	QCMB-SSXXX-BHE-FW-R407C-440/60-6								
Model	150	170	220	260	300	330	370	420	450
Cooling capacity [kW]	150	170	220	260	300	330	370	420	450
Power consumption [kW]	52.6	61.1	79.2	91.5	105.3	113.3	129.4	145.9	186.6
Rated current [A]	74.2	85.4	107.3	123.6	142.7	157.8	178.9	200.0	262.0
Refrigerant	R407C								
Power supply	440V/3~/60Hz								
Condensing source	Fresh water								
Outlet water temperature	6 °C								
Unit dimension [L*D*H) [mm³]	Box #1				Box #2				
	2500*1000*1000 (incl. control box)				2500*1000*1550 (incl. control box)				
Compressor type	Semi-hermetic screw compressor								
Condenser type	Shell & tube								
Evaporator type	Brazed heat exchanger								

A/C Direct Expansion Units, QDX

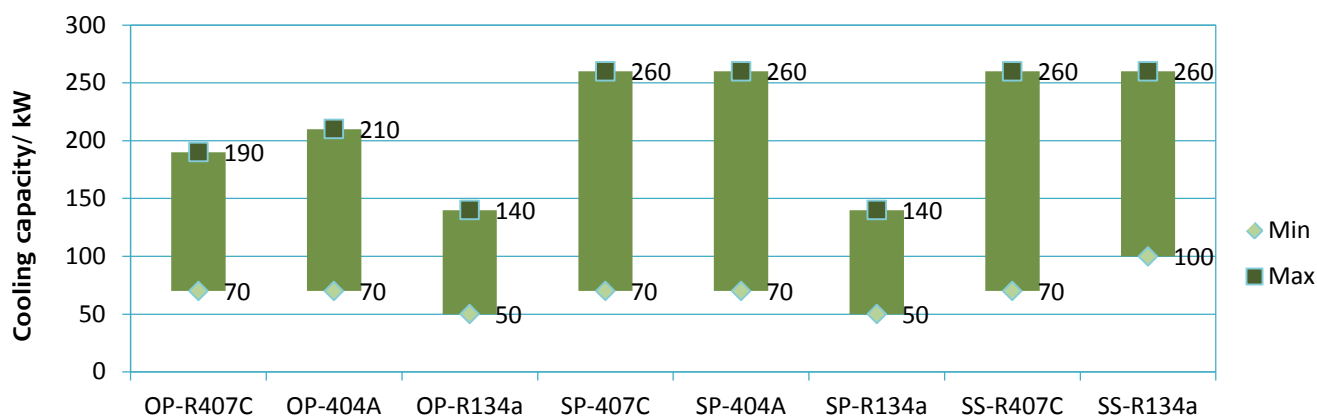
INTRODUCTION

The individual Air Conditioning Direct Expansion Units is designed for a cooling capacity ranging from 50-260kW. All system components are dimensioned and calculated for optimal performance at the required design parameters. The performance of the cooling plants depend on how the actual system parameters compare to the system design parameters.

The specially developed Novenco control system allows for optimal adjustment of the cooling capacity. The unit output is accurately controlled within the range specified for individual compressors. In order to prevent the risk of low capacity operation, the unit automatically will stop when the output demand drops below minimum compressor capacity and will restart after a preset delay time when the output demand again rises above the minimum compressor capacity.

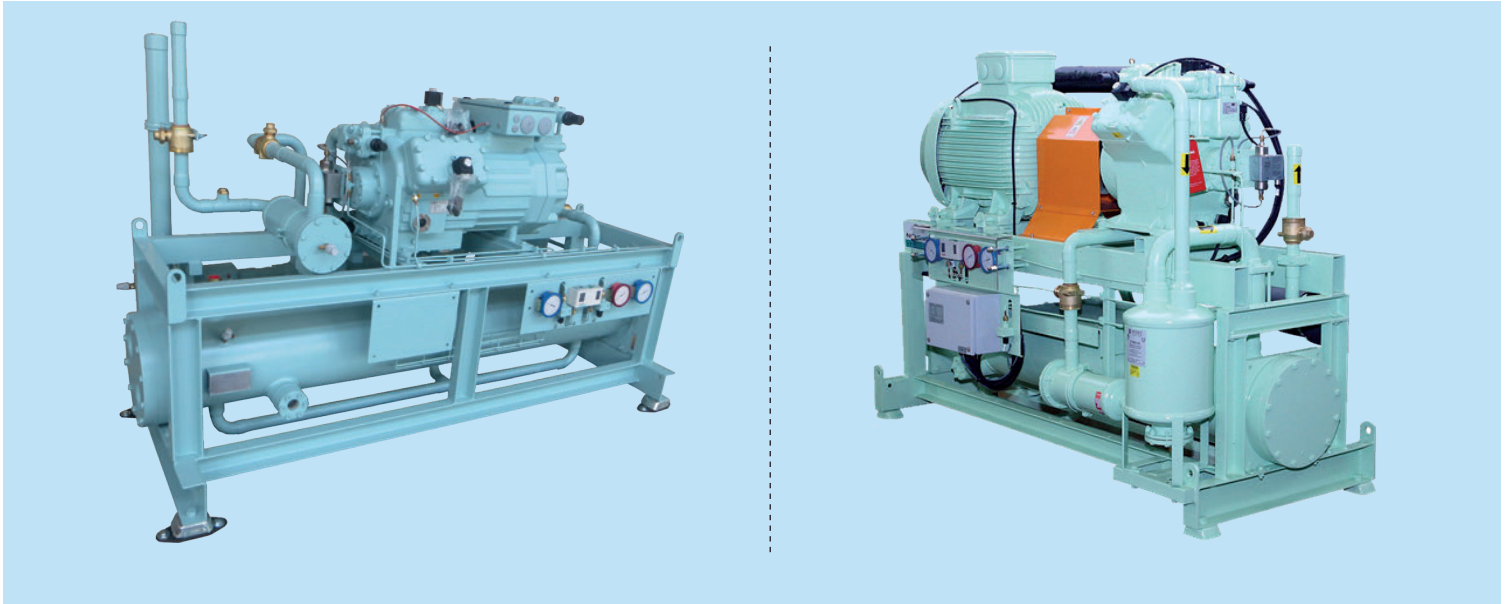
The unit has passed a rigorous quality inspection and testing procedure prior to final factory approval and packing.

Capacity overview for QDX A/C Direct Expansion Unit



Note: OP = open piston; SP = semi-hermetic piston; SS = semi-hermetic screw

Note: QDX = Cooling Direct eXpansion



ADVANTAGES AND APPLICATION

- Modular standardized condensing unit, piston & compact or compact screw compressor
- Designed optimized for air conditioning, compact & robust
- Highly accurate capacity and temperature control system suited for AC as well as MGO/MDO cooling
- High quality components for maximum reliability, endurance and minimum maintenance
- Marine proof compressors, semi-hermetic or open type direct driven piston and semi-hermetic compact screw;
- Designed for operation with approved HFC refrigerants
- Ethernet connection enabling remote control to any PC on-board
- Environmental friendly design, on request the design may comply with all environmental certifications (LRS, DNV-GL, ABS, BV, RINA, etc.)
- Protective coating – category C2 HIGH is using a paint system complying with EN ISO 12944-5. Standard colour is RAL 5001, and can be changed to other standard RAL colours to meet customer requirements
- Compressor capacity regulation down to 25-33%, ensuring smooth operation without short cycling in part load conditions
- Easy maintenance despite the compact design
- Condenser holding the refrigerant charging during operational pumpdown
- Pre-assembled valve boards ensuring trouble-free installation on-board
- Factory pressure and leak testing of all units prior to shipment
- Combined suction accumulator and sub-cooler for long on-board piping distances
- Fresh or sea water proof condensers
- 3D documentation of all plants for easy integration
- SIEMENS PLC control of all unit functions
- Four types of system configurations are available: 1 or 2 QDXs with 1 or 2 AHUs
- Touch screen interface for easy unit operation and status overview
- R404A as standard, R134a and R407C as alternatives

A/C Direct Expansion Units, QDX

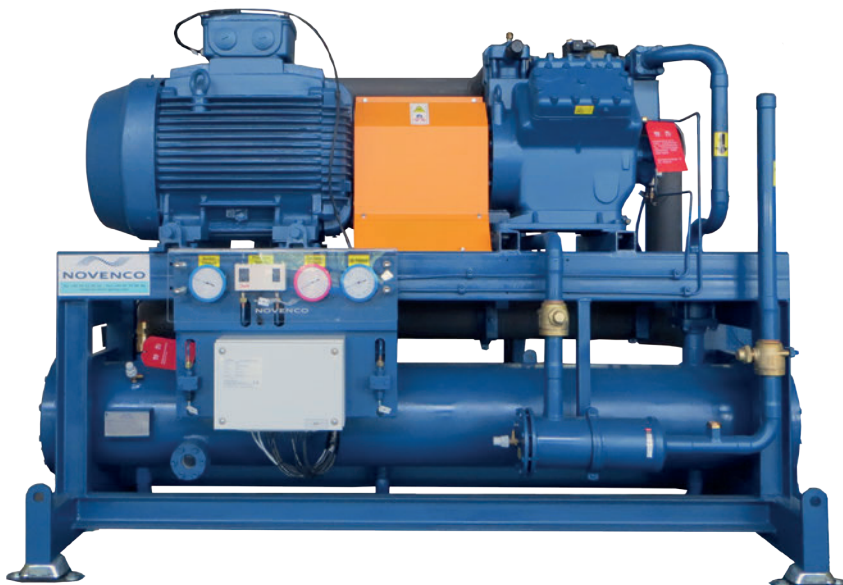
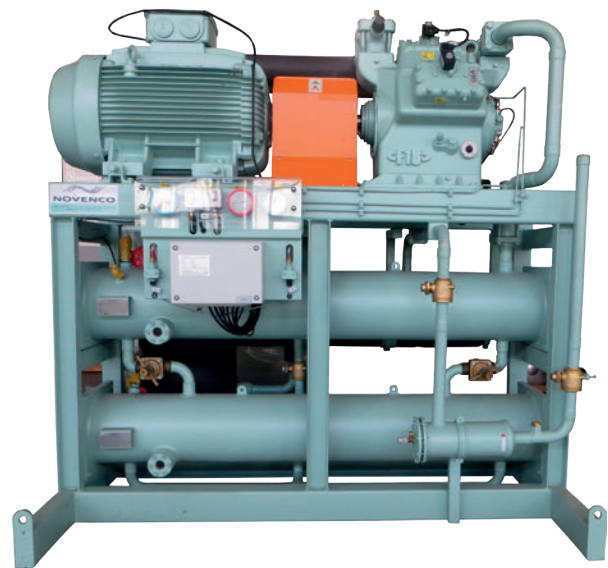
SCOPE OF SUPPLY

Standard supply

- Semi-hermetic/open type compressor, 400V/50Hz, 440V/60Hz
- Robust shell & tube condenser for sea or fresh water
- Danfoss filters
- 2-in-1 suction accumulator and sub-cooler
- One-side service and unit state monitoring design
- Combined suction accumulator and sub-cooler
- Manometers for suction & discharge pressure
- Temperature sensor for suction pipe of AHU
- Flexible connections for connecting QDX to AHU
- First charge of refrigerant and lubrication oil

Standard options

- Oil separator
- Additional sub-cooler
- Liquid receiver



Refrigeration Provision Plants, QPP

INTRODUCTION

The individual QPP Refrigeration Provision Plant is designed for a cooling capacity ranging from 2-18kW. All system components are dimensioned and calculated for optimal performance at the required design parameters. The performance of the cooling plants depend on how the actual system parameters compare to the system design parameters.

The specially developed Novenco control system allows for optimal adjustment of the cooling capacity. The unit output is accurately controlled within the range specified for individual compressors. In order to prevent the risk of low capacity operation, the unit automatically will stop when the output demand drops below minimum compressor capacity and will restart after a preset delay time when the output demand again rises above the minimum compressor capacity.

The unit has passed a rigorous quality inspection and testing procedure prior to final factory approval and packing.



Note: QPP = Cooling Provision Plant

Refrigeration Provision Plants, QPP

ADVANTAGES AND APPLICATION

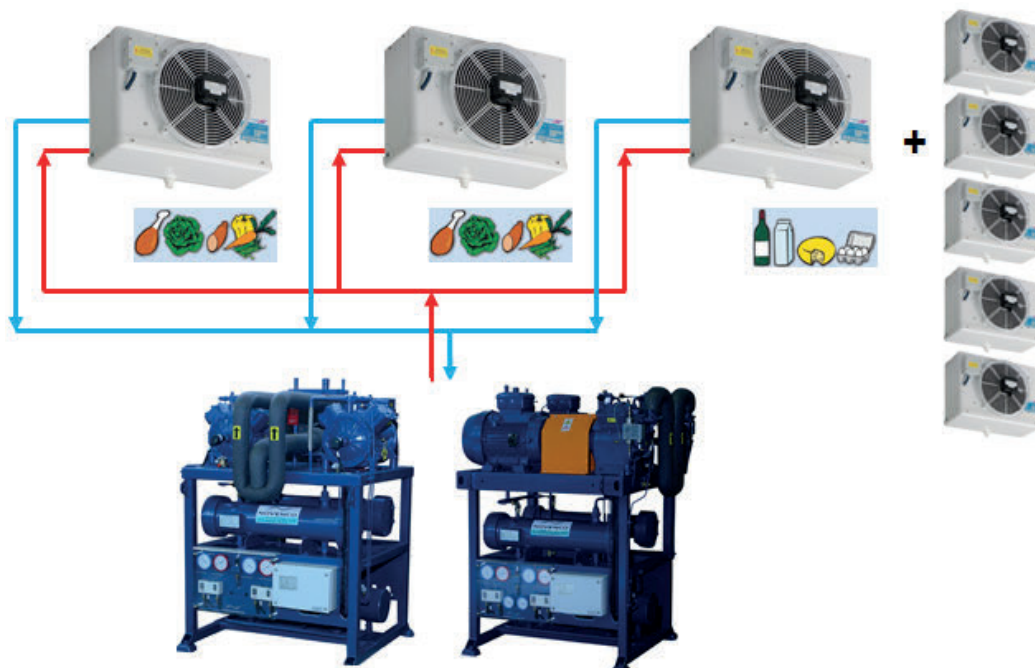
- Complete system supply
 - Condensing unit, open or semi-hermetic type
 - Air cooler(s)
 - Control panel, PLC system control
 - Necessary system components
- Simultaneous control of 8 individual cold storage rooms
- Intelligent defrost, energy efficient
- Quick freeze function
- Compact design insures both easy maintenance and minimum footprint

AIR COOLER

- Wiring and valves pre-installed (internally)
- Easy cleanable
- High efficiency
- Hinged drip-pan



As standard the Novenco system can handle
up to 8 individually rooms in the provision plant system
Total standard cooling capacity range, 2 – 18 kW



NovPAC Marine Self-contained A/C

WATER-COOLED TYPE (PLENUM)



AIR COOLER

Cu/Cu coil for NovPAC-G, Cu/Al coil for NovPAC-R. The evaporation process is secured by a thermostatic expansion valve. A washable flat filter is placed in front of the air coil. The unit has a drip tray with extra depth to take pitch and roll into considerations. Material of drip tray is plastic spraying treated cold-rolled steel sheet, and stainless steel sheet is optional.

FAN

For optimum sound reduction a dual fan program is applied: fans with low static pressure for plenum to ensure a low noise level and high static pressure for duct connection, centrifugal fan with motor V-belt coupled.

CASING

Cold-rolled steel sheet casing built on a rigid galvanized steel frame. The casing is thermally insulated to prevent condensation and surface treatment by plastic spraying to resist corrosion. Plenum with adjustable grill and fresh air intake is optional.

COMPRESSOR

NovPAC-R/G models use hermetic reciprocating compressors. The compressors are fitted with heating elements and an internal suction accumulator (for azeotropic refrigerant) to ensure long life operation.

WATER-COOLED TYPE (DUCT CONNECTION)



Note: NovPAC = Novenco Packaged Air Conditioning
For NovPAC-R/G, R stands for Return and G stands for Galley

NovPAC Marine Self-contained A/C

AIR-COOLED TYPE (INDOOR UNIT)



AIR-COOLED TYPE (OUTDOOR UNIT)



CONDENSER - AIR COOLED

The air cooled condenser is a component supplied separated from the main NovPAC unit to be connected on site, allowing for optional flexibility in installation.

CONDENSER - WATER COOLED SHELL & TUBE

A cleanable shell-and-tube condenser with 90/10 Cu/Ni tubes is used for sea water, and a cast iron shell and Cu tube condenser for freshwater. Automatic sea-water valves and air cooled condenser are optional.

AIR-COOLED TYPE (OUTDOOR UNIT)



FEATURES

Packaged air conditioners NovPAC-R/G are specially designed for use in marine and offshore installations. These units can be used for all kinds of small capacity air conditioning requirements.

- Cooling coil for direct expansion
- High-efficiency centrifugal fan
- Hermetic reciprocating compressor with low sound generation
- Cu/Ni shell and tube condenser or seawater, a cast iron shell and Cu tube condenser for freshwater, a Cu/Al air cooled condenser for air
- Control panel with motor protection by thermal overload relay, temperature control and compressor control
- Thermostatic temperature control
- Standard refrigerant R404A, R407C, or R134a
- Standard range of units for 3x400V/50Hz or 3x440V/60Hz for freshwater, seawater or air cooled condenser.
- Air filter (EU-2), EU-4 is optional

NOVPAC-R CONTENTS

- Specially designed for recirculation systems, e.g. for ECR (Engine Control Room), etc. with capacities from 6-98kW

NOVPAC-G CONTENTS

- Specially designed for Galley, with capacities from 10-50kW

UNIT CONTROLS

A digital temperature controller, with LED and sensors placed in the air flow, ensures the correct temperature. The LED is located on the small panel in front of the unit as well as switch knob for choosing operation mode such as cool, heat, ventilation or remote on/off of optional equipment. The electric panel includes automatic circuit breakers. The compressor safety equipment includes HP/LP switches, filter/drier and liquid refrigerant sight glasses, and fittings to plug in pressure gauges.

OPTIONAL SUPPLY

- Plenum
- Damper for fresh air intake and/or counter flanges
- Return air intake for a duct connection
- Flexible connections and counter flanges for air intake and outlet
- Stainless steel casing
- Cu/Cu cooling coil
- Electric heating coil
- Automatic seawater valve
- Pressure gauges

NovPAC Marine Self-contained A/C

Specifications - Water-cooled type

		Type	Cooling capacity [kW] #						Comp. motor power consumption [kW] #						Cooling water flow [m³/h]		
			R404A		R407C		R134a		R404A		R407C		R134a		R404A		R407C
			SW	FW	SW	FW	SW	FW	SW	FW	SW	FW	SW	FW	SW	FW	SW
NovPAC-R (Return air)	Single system	NovPAC-R6	7.2/ 8.5	6.6/ 7.9	6.7/ 8.2	6.2/ 7.7	4.3/ 5.6	4.0/ 5.3	2.4/ 2.9	2.5/ 3.1	2.0/ 2.4	2.1/ 2.5	1.3/ 1.8	1.4/ 1.9	2.5/ 3.0	2.4/ 2.8	2.2/ 2.7
		NovPAC-R10	10.4/ 12.8	9.6/ 11.7	9.6/ 11.7	9.0/ 11.0	6.2/ 8.1	5.9/ 7.6	3.6/ 4.4	3.7/ 4.6	3.1/ 3.8	3.3/ 4.0	2.0/ 2.8	2.1/ 2.9	3.6/ 4.5	3.4/ 4.2	3.2/ 3.9
		NovPAC-R14	13.4/ 16.2	12.1/ 14.8	11.6/ 14.3	10.8/ 13.4	8.1/ 10.0	7.6/ 9.4	4.2/ 5.5	4.5/ 5.8	3.5/ 4.2	3.7/ 4.4	2.5/ 3.2	2.6/ 3.3	4.5/ 5.6	4.3/ 5.3	3.8/ 4.7
		NovPAC-R17	16.7/ 19.8	15.3/ 19.2	15.0/ 17.9	13.9/ 16.7	10.3/ 13.1	9.6/ 12.3	5.4/ 7.2	5.7/ 7.4	4.5/ 5.4	4.7/ 5.7	3.1/ 4.1	3.3/ 4.3	5.7/ 7.0	5.4/ 6.6	4.9/ 5.9
		NovPAC-R20	18.7/ 22.0	17.1/ 20.2	16.8/ 20.0	15.6/ 18.8	11.8/ 14.4	11.1/ 13.6	6.1/ 8.1	6.4/ 8.4	5.1/ 6.1	5.3/ 6.4	3.5/ 4.6	3.7/ 4.7	6.4/ 7.7	6.0/ 7.3	5.5/ 6.6
		NovPAC-R27	25.2/ 29.7	23.0/ 27.2	23.4/ 28.5	21.7/ 26.7	15.5/ 19.0	14.6/ 17.7	7.8/ 9.4	8.2/ 9.9	6.7/ 8.2	7.2/ 8.7	5.5/ 5.8	4.7/ 5.9	8.5/ 10.0	8.0/ 9.5	7.6/ 9.3
	Twin system	NovPAC-R35	16.7*2/ 19.8*2	15.3*2/ 19.2*2	15.0*2/ 17.9*2	13.9*2/ 16.7*2	10.3*2/ 13.1*2	9.6*2/ 12.3*2	5.4*2/ 7.2*2	5.7*2/ 7.4*2	4.5*2/ 5.4*2	4.7*2/ 5.7*2	3.1*2/ 4.1*2	3.3*2/ 4.3*2	11.4/ 13.8	10.8/ 13.1	9.9/ 11.8
		NovPAC-R42	21.1*2/ 24.5*2	19.3*2/ 22.5*2	18.9*2/ 22.7*2	17.6*2/ 21.3*2	13.5*2/ 16.3*2	12.6*2/ 15.4*2	7.2*2/ 9.5*2	7.5*2/ 9.8*2	5.9*2/ 7.0*2	6.1*2/ 7.3*2	4.1*2/ 5.3*2	4.2*2/ 5.5*2	14.5/ 17.4	13.7/ 16.6	12.5/ 15.0
		NovPAC-R50	25.2*2/ 29.7*2	23.0*2/ 27.2*2	23.4*2/ 28.5*2	21.7*2/ 26.7*2	15.5*2/ 19.0*2	14.6*2/ 17.7*2	7.8*2/ 9.4*2	8.2*2/ 9.9*2	6.7*2/ 8.2*2	7.1*2/ 8.7*2	5.5*2/ 5.8*2	4.7*2/ 5.9*2	16.9/ 20.1	16.1/ 19.1	15.2/ 18.6
		NovPAC-R63	32.4*2/ 36.8*2	29.6*2/ 34.0*2	30.2*2/ 36.4*2	28.3*2/ 33.9*2	19.2*2/ 23.5*2	17.9*2/ 22.0*2	10.1*2/ 12.2*2	10.6*2/ 12.9*2	8.5*2/ 10.8*2	9.0*2/ 11.3*2	5.4*2/ 6.9*2	5.7*2/ 7.1*2	21.8/ 25.2	20.7/ 24.1	19.6/ 23.9
		NovPAC-R80	36.9*2/ 43.2*2	33.9*2/ 39.8*2	33.5*2/ 40.9*2	31.3*2/ 38.5*2	23.5*2/ 28.1*2	22*2/ 26.5*2	11.7*2/ 14.5*2	12.3*2/ 15.1*2	9.7*2/ 12.0*2	10.2*2/ 12.7*2	6.8*2/ 8.5*2	7.0*2/ 8.9*2	25.0/ 29.6	23.7/ 28.2	21.8/ 26.8
		NovPAC-R98	40.4*2/ 46.7*2	37.1*2/ 43.0*2	38.2*2/ 45.4*2	35.8*2/ 42.6*2	25.8*2/ 31.1*2	24.2*2/ 29.4*2	13.6*2/ 16.8*2	14.2*2/ 17.5*2	11.3*2/ 14.1*2	11.9*2/ 14.8*2	7.5*2/ 9.6*2	7.8*2/ 10.0*2	27.7/ 32.6	26.4/ 31.1	25.0/ 30.1
NovPAC-G (Total fresh air)	Single system	NovPAC-G10	10.5/ 12.7	9.7/ 11.7	9.1/ 12.2	8.5/ 10.3	6.7/ 8.1	6.4/ 7.6	3.2/ 4.0	3.4/ 4.2	2.7/ 4.0	2.9/ 3.6	1.9/ 2.6	2.0/ 2.7	3.8/ 4.6	3.6/ 4.4	3.3/ 4.1
		NovPAC-G14	11.7/ 14.4	10.7/ 13.2	10.4/ 12.8	9.8/ 12.0	6.9/ 9.1	6.6/ 8.6	3.7/ 4.6	3.9/ 4.8	3.1/ 3.9	3.3/ 4.1	2.0/ 2.9	2.1/ 3.0	4.0/ 4.8	3.8/ 4.6	3.5/ 4.3
		NovPAC-G17	16.6/ 19.9	15.2/ 18.3	14.6/ 17.5	13.6/ 16.5	10.5/ 12.6	9.8/ 11.9	4.9/ 6.5	5.1/ 6.8	4.1/ 4.9	4.3/ 5.2	2.9/ 3.6	3.0/ 3.8	5.9/ 7.2	5.6/ 6.9	5.3/ 6.3
		NovPAC-G20	18.8/ 22.2	17.3/ 20.4	16.4/ 19.4	15.3/ 18.3	11.8/ 14.3	11.1/ 14.0	5.6/ 7.4	5.9/ 7.7	4.6/ 5.5	4.8/ 5.8	3.3/ 4.8	3.4/ 4.5	6.2/ 7.4	5.8/ 7.1	5.4/ 6.5
		NovPAC-G27	23.6/ 27.4	21.7/ 25.2	20.6/ 24.6	19.2/ 23.1	15.4/ 18.4	14.5/ 17.4	7.4/ 9.9	7.7/ 10.2	6.0/ 7.2	6.3/ 7.6	4.2/ 5.6	4.4/ 5.8	8.5/ 10.1	8.1/ 9.7	7.5/ 8.9
		NovPAC-G35	28.4/ 33.4	26.0/ 30.6	25.6/ 31.1	23.8/ 29.1	17.9/ 21.8	16.7/ 20.4	7.9/ 9.6	8.4/ 10.1	6.8/ 8.3	7.2/ 8.8	4.6/ 5.9	4.9/ 6.1	10.0/ 11.8	9.4/ 11.2	9.2/ 11.1
	Twin system	NovPAC-G42	21.0*2/ 24.6*2	19.3*2/ 22.6*2	18.3*2/ 21.8*2	17.1*2/ 20.5*2	13.6*2/ 16.3*2	12.7*2/ 15.4*2	6.3*2/ 8.5*2	6.6*2/ 8.8*2	5.5*2/ 6.5*2	5.8*2/ 6.8*2	3.6*2/ 5.8*2	3.8*2/ 5.0*2	15.0/ 18.0	14.2/ 17.2	13.3/ 15.7
		NovPAC-G50	23.6*2/ 27.4*2	21.7*2/ 25.2*2	20.6*2/ 24.6*2	19.2*2/ 23.1*2	15.4*2/ 18.4*2	14.5*2/ 17.4*2	7.4*2/ 9.9*2	7.7*2/ 10.2*2	6.0*2/ 7.2*2	6.3*2/ 7.6*2	4.2*2/ 5.6*2	4.4*2/ 5.8*2	16.9/ 20.3	16.1/ 19.3	15.0/ 17.8

Note:

- # 50/60 Hz;
- SW = sea water; FW = fresh water;
- *2 = two compressors
- Limitations: Maximum air inlet temp.: 55oC. Minimum air inlet temp.: -20oC. Minimum cooling water temp.: 20oC
- Owing to continued product development Novenco reserves the right to introduce alterations without prior notice

Cooling water flow rate [m³/h] #				Cooling water pre- loss [Kpa]	For duct connection				With plenum			Electric heating capacity [kW]		Dimensions & Weight H x W x D / Weight [mm³ / kg]	
R407C		R134a		R404A/ R407C/ R134a	Air flow [m³/h] #		Unit external static pressure [Pa]	Motor power input [kW] #	Air flow [m³/h] #		Motor power input [kW] #	R404A/ R407C	R134a	Duct connection	Plenum
FW	SW	FW	SW/FW	R404A/ R407C	R134a	R404A/ R407C/ R134a	R404A/ R407C/ R134a	R404A/ R407C	R134a	R404A/ R407C/ R134a					
	2.1/ 2.6	1.7/ 2.2	1.6/ 2.1	50	1200/ 1500	860/ 1120	400	0.75/0.85	1200/ 1500	860/ 1120	0.55/0.62	3	2	1610 x 700 x 550 / 185	1850 x 700 x 550 / 200
	3.1/ 3.8	2.4/ 3.2	2.3/ 3.0	50	1800/ 1200	1240/ 1620	400	1.10/1.30	1800/ 1200	1240/ 1620	0.55/0.62	6	4	1610 x 800 x 550 / 265	1850 x 800 x 550 / 280
	3.7/ 4.5	3.1/ 3.8	2.9/ 3.7	50	2300/ 2700	1620/ 2000	400	1.10/1.30	2300/ 2700	1620/ 2000	0.55/0.62	9	6	1610 x 900 x 580 / 280	1850 x 900 x 580 / 300
	4.7/ 5.7	3.9/ 5.0	3.7/ 4.7	50	2800/ 3300	2060/ 2620	400	1.50/1.80	2800/ 3300	2060/ 2620	0.75/0.85	12	9	1610 x 1050 x 580 / 320	1850 x 1050 x 580 / 320
	5.3/ 6.4	4.4/ 5.5	4.2/ 5.3	50	3100/ 3700	2360/ 2880	400	1.50/1.80	3100/ 3700	2360/ 2880	0.75/0.85	12	9	1700 x 1100 x 700 / 395	1950 x 1100 x 700 / 420
	7.3/ 9.0	6.1/ 7.2	5.8/ 6.8	50	4200/ 4900	3100/ 3800	400	1.50/1.80	4200/ 4900	3100/ 3800	1.10/1.30	15	12	1700 x 1200 x 700 / 460	1950 x 1200 x 700 / 490
	9.4/ 11.4	7.7/ 10.0	7.3/ 9.4	50	5600/ 6600	4120/ 5240	400	3.00/3.60	5600/ 6600	4120/ 5240	1.10/1.30	21	15	1700 x 1450 x 700 / 540	2050 x 1450 x 700 / 580
	12.0/ 14.5	10.1/ 12.4	9.6/ 11.9	50	7000/ 8100	5400/ 6520	400	3.00/3.60	7000/ 8100	5400/ 6520	1.50/1.80	24	18	1800 x 1700 x 800 / 600	2150 x 1700 x 800 / 660
	14.6/ 17.9	12.1/ 14.3	11.6/ 13.5	50	8400/ 9800	6200/ 7600	400	4.00/4.80	8400/ 9800	6200/ 7600	2.20/2.60	30	21	1800 x 1900 x 900 / 680	2350 x 1900 x 900 / 750
	18.9/ 23.0	14.1/ 17.5	12.4/ 16.6	50	10700/ 12200	7680/ 9400	400	4.00/4.80	10700/ 12200	7680/ 9400	2.20/2.60	39	27	1800 x 1900 x 900 / 700	2350 x 1900 x 900 / 770
	21.0/ 25.9	17.4/ 21.0	16.6/ 20.1	50	12200/ 14300	9400/ 11240	400	5.50/6.30	12200/ 14300	9400/ 11240	3.00/3.60	48	30	1900 x 2000 x 1000 / 800	2400 x 2000 x 1000 / 870
	24.1/ 29.0	19.1/ 23.4	18.2/ 22.4	50	13400/ 15500	10320/ 12440	400	5.50/6.30	13400/ 15500	10320/ 12440	3.00/3.60	57	36	1900 x 2000 x 1000 / 850	2400 x 2000 x 1000 / 930
	3.2/ 3.9	2.5/ 3.1	2.5/ 3.0	50	1000/ 1200	820/ 990	500	0.75/0.85	--	--	--	6	4	1610 x 800 x 550 / 265	--
	3.4/ 4.1	2.7/ 3.3	2.7/ 3.2	50	1110/ 1400	850/ 1110	500	0.75/0.85	--	--	--	9	6	1610 x 900 x 580 / 280	--
	5.1/ 6.1	3.9/ 4.7	3.7/ 4.6	50	1500/ 1800	1285/ 1540	500	0.75/0.85	--	--	--	15	9	1610 x 1050 x 580 / 300	--
	5.3/ 6.3	4.1/ 4.9	3.9/ 4.8	50	1780/ 2100	1450/ 1750	500	1.10/1.30	--	--	--	15	9	1700 x 1100 x 700 / 395	--
	7.2/ 8.6	5.7/ 6.9	5.5/ 6.7	50	2100/ 2500	1885/ 2250	500	1.10/1.30	--	--	--	21	15	1700 x 1200 x 700 / 460	--
	8.8/ 10.7	6.5/ 8.0	6.2/ 7.6	50	2600/ 3000	2190/ 2665	500	1.50/1.80	--	--	--	27	18	1700 x 1450 x 700 / 520	--
	12.8/ 15.2	9.9/ 12.7	9.5/ 11.7	50	3800/ 4400	3325/ 3985	500	2.20/2.60	--	--	--	33	24	1800 x 1700 x 800 / 600	--
	14.4/ 17.2	11.3/ 13.8	10.9/ 13.4	50	4200/ 4900	3764/ 4498	500	2.20/2.60	--	--	--	39	27	1800 x 1900 x 900 / 680	--

NovPAC Marine Self-contained A/C

Specifications - Air-cooled type

		Type	Cooling capacity [kW] #			Comp. motor power consumption [kW] #			Air outlet type - Duct connection				Air outlet type - With plenum		
			R404A	R407C	R134a	R404A	R407C	R134a	Air flow [m³/h] #		External static pressure [Pa]	Motor power input [kW] #	Air flow [m³/h] #		Motor input [kW]
									R404A/ R407C	R134a			R404A/ R407C	R134a	
NovPAC-AR (Return air)	Single system	NovPAC-AR6	6.0/ 7.2	5.7/ 7.0	3.6/ 4.9	2.6/ 3.2	2.2/ 2.6	1.4/ 1.9	1200/ 1500	860/ 1120	400	0.75/ 0.85	1200/ 1500	860/ 1120	0.5/ 0.6
		NovPAC-AR10	8.3/ 10.5	8.4/ 10.0	5.5/ 7.0	3.9/ 4.8	3.4/ 4.1	2.2/ 2.9	1800/ 2200	1240/ 1620	400	1.10/ 1.30	1800/ 2200	1240/ 1620	0.5/ 0.6
		NovPAC-AR14	10.9/ 13.2	9.9/ 12.5	7.1/ 8.7	4.7/ 6.0	3.8/ 4.6	2.7/ 3.4	2300/ 2700	1620/ 2000	400	1.10/ 1.30	2300/ 2700	1620/ 2000	0.5/ 0.6
		NovPAC-AR17	13.5/ 16.4	12.9/ 15.6	8.9/ 11.5	6.0/ 7.6	4.9/ 5.9	3.4/ 4.4	2800/ 3300	2060/ 2620	400	1.50/ 1.80	2800/ 3300	2060/ 2620	0.7/ 0.8
		NovPAC-AR20	15.4/ 18.3	14.5/ 17.5	10.3/ 12.7	6.7/ 8.7	5.6/ 6.7	3.8/ 4.9	3100/ 3700	2360/ 2880	400	1.50/ 1.80	3100/ 3700	2360/ 2880	0.7/ 0.8
		NovPAC-AR27	20.9/ 24.8	20.0/ 24.6	13.4/ 16.3	8.6/ 9.1	7.4/ 10.3	4.9/ 6.1	4200/ 4900	3100/ 3800	400	1.50/ 1.80	4200/ 4900	3100/ 3800	1.1/ 1.3
	Twin system	NovPAC-AR35	13.5*2/ 16.4*2	12.9*2/ 15.6*2	8.9*2/ 11.5*2	6.0*2/ 7.6*2	4.9*2/ 5.9*2	3.4*2/ 4.4*2	5600/ 6600	4120/ 5240	400	3.00/ 3.60	5600/ 6600	4120/ 5240	1.1/ 1.3
		NovPAC-AR42	17.5*2/ 20.3*2	16.4*2/ 19.9*2	11.8*2/ 14.4*2	7.8*2/ 10.1*2	6.3*2/ 7.6*2	4.3*2/ 5.6*2	7000/ 8100	5400/ 6520	400	3.00/ 3.60	7000/ 8100	5400/ 6520	1.5/ 1.8
		NovPAC-AR50	20.9*2/ 24.8*2	20.0*2/ 24.6*2	13.4*2/ 20.2*2	8.6*2/ 9.1*2	7.4*2/ 10.3*2	4.9*2/ 6.1*2	8400/ 9800	6200/ 7600	400	4.00/ 4.80	8400/ 9800	6200/ 7600	2.2/ 2.6
		NovPAC-AR63	26.9*2/ 31.5*2	26.3*2/ 30.9*2	16.6*2/ 30.9*2	11.1*2/ 13.6*2	9.5*2/ 13.6*2	5.9*2/ 7.2*2	10700/ 12200	7680/ 9400	400	4.00/ 4.80	10700/ 12200	7680/ 9400	2.2/ 2.6
		NovPAC-AR80	30.5*2/ 36.2*2	29.1*2/ 36.0*2	20.5*2/ 24.8*2	12.8*2/ 15.7*2	10.7*2/ 13.3*2	7.3*2/ 9.2*2	12200/ 14300	9400/ 11240	400	5.50/ 6.30	12200/ 14300	9400/ 11240	3.0/ 3.6
		NovPAC-AR98	33.5*2/ 39.2*2	33.4*2/ 39.3*2	22.5*2/ 27.5*2	14.8*2/ 18.2*2	12.5*2/ 18.2*2	8.0*2/ 10.2*2	13400/ 15500	10320/ 12440	400	5.50/ 6.30	13400/ 15500	10320/ 12440	3.0/ 3.6
NovPAC-AG (Total fresh air)	Single system	NovPAC-AG10	8.4/ 10.3	7.9/ 9.6	5.7/ 6.8	3.5/ 4.4	3.1/ 3.8	2.0/ 2.7	1000/ 1200	820/ 990	500	0.75/ 0.85	--	--	--
		NovPAC-AG14	9.4/ 11.6	9.2/ 11.2	6.0/ 7.7	4.0/ 4.9	3.5/ 4.3	2.2/ 3.0	1110/ 1400	850/ 1110	500	0.75/ 0.85	--	--	--
		NovPAC-AG17	13.1/ 15.9	12.5/ 15.3	8.7/ 10.6	5.4/ 7.0	4.5/ 5.4	3.1/ 3.8	1500/ 1800	1285/ 1540	500	0.75/ 0.85	--	--	--
		NovPAC-AG20	15.0/ 17.8	14.1/ 17.0	9.9/ 12.6	6.1/ 7.8	5.1/ 6.1	3.5/ 4.5	1780/ 2100	1450/ 1750	500	1.10/ 1.30	--	--	--
		NovPAC-AG27	18.9/ 22.1	17.9/ 21.6	13.0/ 21.6	8.0/ 10.4	6.6/ 7.9	4.5/ 7.9	2100/ 2500	1885/ 2250	500	1.10/ 1.30	--	--	--
		NovPAC-AG35	22.7/ 27.1	22.0/ 26.8	22.0/ 26.8	8.8/ 10.5	7.6/ 9.3	7.6/ 9.3	2600/ 3000	2190/ 2665	500	1.50/ 1.80	--	--	--
	Twin system	NovPAC-AG42	16.8*2/ 19.8*2	15.8*2/ 19.1*2	15.8*2/ 19.1*2	6.8*2/ 8.9*2	5.7*2/ 6.9*2	5.7*2/ 6.9*2	3800/ 4400	3325/ 3985	500	2.20/ 2.60	--	--	--
		NovPAC-AG50	18.9*2/ 22.1*2	17.9*2/ 21.6*2	17.9*2/ 21.6*2	8.0*2/ 10.4*2	6.6*2/ 7.9*2	6.6*2/ 7.9*2	4200/ 4900	3764/ 4498	500	2.20/ 2.60	--	--	--

- Note:
- # 50/60 Hz;
 - *2 = two compressors
 - Owing to continued product development Novenco reserves the right to introduce alterations without prior notice

	Electric heating capacity [kW]		Outdoor fan	
power [kW] #	R404A/ R407C	R134a	Fan air flow [m³/h] #	Motor power input [kW] #
			R404A/ R407C/ R134a	R404A/ R407C/ R134a
5/52	EH-3	EH-3	4420/ 5500	0.320/ 0.416
5/52	EH-6/3	EH-6/3	5700/ 7000	0.450/ 0.585
5/52	EH-9/6/9	EH-9/6/3	7050/ 8800	0.450/ 0.585
5/85	EH-12/9/6	EH-12/9/6	11000/ 13750	0.450/ 0.585
5/85	EH-15/12/9	EH-15/12/9	11000/ 13750	0.450/ 0.585
0/30	EH-18/15/12	EH-18/15/12	14000/ 17500	0.450/ 0.585
0/30	EH-21/18/15	EH-21/18/15	19000/ 23750	0.680/ 0.864
0/30	EH-24/21/18	EH-24/21/18	24000/ 30000	0.930/ 1.209
0/50	EH-30/24/21	EH-27/24/18	26300/ 32800	0.930/ 1.209
0/50	EH-36/30/24	EH-30/27/24	33200/ 41500	1.050/ 1.366
0/50	EH-45/36/30	EH-33/30/27	43900/ 54800	1.720/ 2.236
0/50	EH-54/45/36	EH-36/33/30	45300/ 56600	1.720/ 2.236
-	EH-6	EH-3	5700/ 7120	0.450/ 0.585
-	EH-9/6	EH-6/3	7050/ 8800	0.450/ 0.585
-	EH-12/9/6	EH-9/6/3	11000/ 13750	0.450/ 0.585
-	EH-15/12/9	EH-12/9/6	11000/ 13750	0.450/ 0.585
-	EH-21/15/12	EH-15/12/9	14000/ 17500	0.450/ 0.585
-	EH-27/21/15	EH-18/15/12	19000/ 23750	0.680/ 0.864
-	EH-33/27/21	EH-24/18/15	24000/ 30000	0.930/ 1.209
-	EH-39/33/27	EH-27/24/18	26300/ 32800	0.930/ 1.209

More Product Pictures

We can provide more...

1. QCM-SS-BHE
2. QCM-ST-ST
3. QCM-SS-ST
4. QCM-PT-BHE
5. QCM-PT-ST
6. QCM-ST-BHE
7. QCM-PS-BHE
8. SCU-C
9. SCU-C
10. QDX with screw compressor
11. QDX with piston compressor
12. QDX with scroll compressor
13. Pump skid



(1)



(3)



(2)



(4)



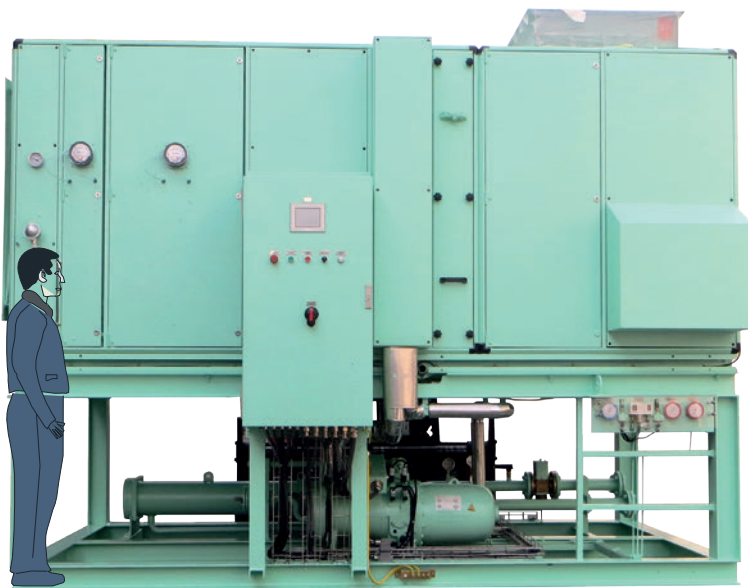
(5)



(6)



(7)



(8)

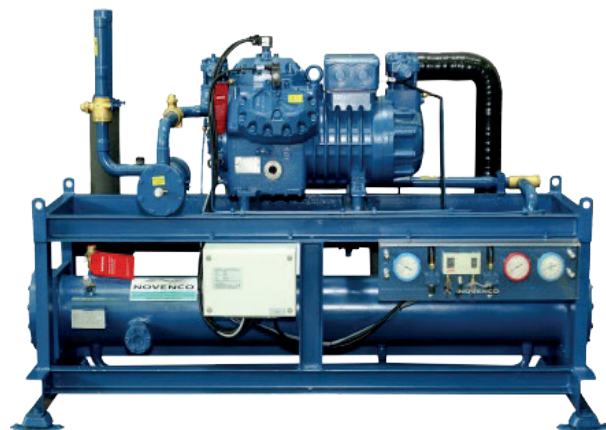


(10)

More Product Pictures



(9)



(11)



(12)



(13)

Product Certificates



中国船级社 CHINA CLASSIFICATION SOCIETY 船用产品证书 CERTIFICATE OF MARINE PRODUCT

证书格式号/Form: P01.03-
CQ000126

证书编号/Certificate No. NJ14P01092_01

兹证明应 诺克海普生空调设备(无锡)有限公司 的申请,

下列产品经本社署名验船师检验,符合本证书注明标准的要求。

This is to certify that, upon request of

Novenco Hi-Pres Air Handling Equipment (Wuxi) Co., Ltd.

the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 诺克海普生空调设备(无锡)有限公司

Manufacturer Novenco Hi-Pres Air Handling Equipment (Wuxi) Co., Ltd.

订货方 广州中船黄埔造船有限公司

Purchaser

产品名称 活塞冷水机组

Product CHILLER SYSTEM

认可证书号/Cert.No.of Approval: 无/Nil. 图纸批准号/Approval No.of drawings: NP15A01430

附加标志

Notations 无/Nil.

用于

Intended for 国际航行海船/International sea-going ship

船舶工程号

Hull No 3062

产品使用限定

Restriction for application of product 无/Nil.

产品编号

SerialNo. QCM0199;QCM0200

产品检验标准/ Product Inspection Standard

1.中国船级社《钢质海船入级规范》(2012)及其修改通报第3篇第4、6章,第5篇第2章,
Chapter 2, Part Five, Chapter 4, 6, Part Three of China Classification Society Rules for Classification of Sea-going Steel
Ships (2012) and its Amendments

产品检验标志/Marking

位置/Position : 在产品上和铭牌上/ On the product and on the nameplate of the product

标志样式/ Type of Marking :  CCS钢印标志/ CCS steel stamp

发证日期 2015年6月15日

Date of issue Jun. 15, 2015

验船师

Surveyor

wangzhongxue

本证书根据中国船级社《钢质海船入级规范》及其修改通报第3篇第4、6章,第5篇第2章, Chapter 2, Part Five, Chapter 4, 6, Part Three of China Classification Society Rules for Classification of Sea-going Steel Ships (2012) and its Amendments 颁发。关于证书的有关规定见本证书背面的说明。当本证书包括多页纸张时,则所有证书页为一个整体,必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关各方对所持证书的真实性有疑问时,可以向本社检验机构咨询。

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Novenco develops and manufactures heating, ventilation, air conditioning, refrigeration and cooling systems marketed and distributed worldwide through subsidiaries and agents.

The company was founded in Denmark in 1947 and has become one of the world-leading suppliers of high quality energy efficient systems.

Read more about Novenco Marine & Offshore on our website www.novenco-marine.com

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