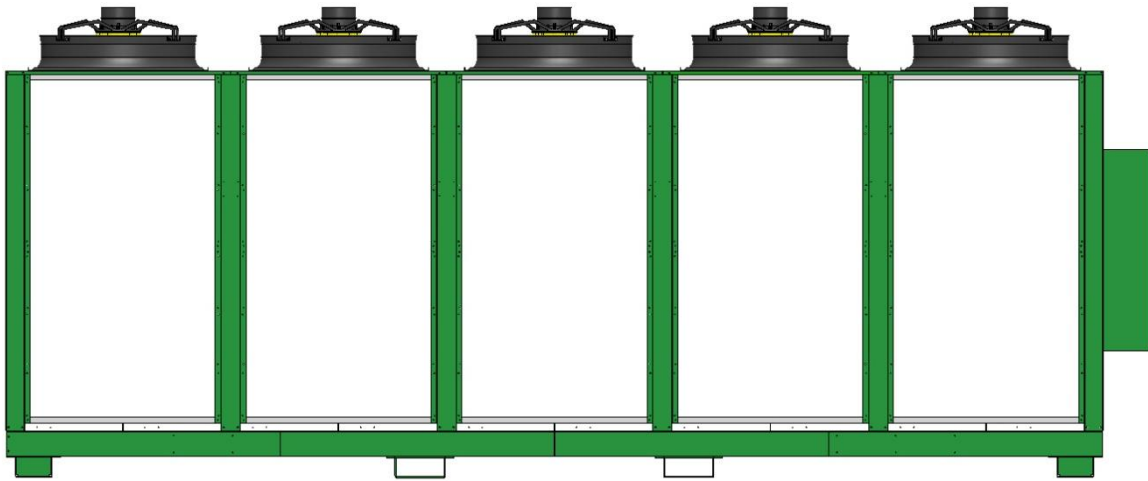


FWC-3000-S(9) R404a UL

Frigadon Nr. _____



FWC-3000-S(9) R404a UL

General			
Application	Air cooled waterchiller for cooling of brine including pump, including UL-Specified electrical components		
Customer	Customized Frigadon product, fitted with options: (5-Row deep condenser, 120 plates evaporator, WFD, Internet Access, UL-Specified electrical components, Hycool compatible and VFD/2-Speed AC Condenser fan (4,9kW)).		
Refrigerant	R-404a		
Brine	Hycool 30		
Refrigeration and system			
Cooling capacity @ 35° amb. (cond. +45°C, evap. -9°C)	Evaporating capacity	286,5	[kW]
Cooling capacity @ 30° amb. (cond. +40°C, evap. -9°C)	Evaporating capacity	314,5	[kW]
Cooling capacity @ 25° amb. (cond. +35°C, evap. -9°C)	Evaporating capacity	342,5	[kW]
Cooling capacity @ 10° amb. (cond. +25°C, evap. -9°C)	Evaporating capacity	398,5	[kW]
Warm Fluid Defrost (WFD)	Heating capacity	9,0	[kW]
Brine temperature (during cooling)	Flow	-6	[°C]
	Return	-2.4	[°C]
Refrigerant charge – (GWP (CO ² = 1)/ODP (R11=1))	R-404A – (3780/0)	5 x 8	[kg]
Capacity steps	0-20-40-60-80-100% (5 compressors)	6	[No.]
Brine flow rate	Hycool 30	22.74	l/s
Useful head	External pressure drop	≥ 120	[kPa]
Brine circuit connection	Flanged ball valve	DN 100	-
Performance - EER (Energy Efficiency Ratio)			
EER (Cooling capacity / Compressor power input)	@ 35°C ambient	2,22	-
	@ 10°C ambient	3,89	-
EER (Cooling capacity / Complete power input)	@ 35°C ambient	1,78	-
	@ 10°C ambient	2,98	-
Sound level	@ 10 meters	63	[dB(A)]
Electrics			
Power Supply	460V-3N/60Hz	-	-
Absorbed power @ 35°C amb. (cond. +46°C, evap. -9°C)	25,8*5 + 4,9*5 + 6,8	160,3	[kW]
Absorbed power @ 10°C amb. (cond. +25°C, evap. -9°C)	20,5*5 + 4,9*5 + 6,8	133,8	[kW]
Max operating current	Compressor	52,6	[A]
Max operating current	Fan	7,5	[A]
Max operating current	Pump	22,5	[A]
Max operating current	Warm Fluid Defrost (WFD)	13,0	[A]
Locked Rotor Amps. (LRA)	Compressor	275,0	[A]
Full Load Amps. (FLA on complete unit)	52,6*5 + 7,5*5 + 22,5 + 13,0	336,0	[A]
Maximum current (FLA on 3 circuits + Pump + WFD + LRA) ¹	52,6*4 + 7,5*4 + 22,5 + 13,0 + 275,0	550,9	[A]
Main components			
Compressor	6J.33-2Y-2NU (UL)	5	[pc]
Brazed plate heat exchanger	AC120-120(H)	5	[pc]
Circulating pump	CRNE-90-1 A-F-G-E HQQE	1	[pc]
Expansion vessel	Stainless 24 litres	4	[pc]
Condenser fan	FN091-VDQ.7Q.V5P1 (4,9kW)	5	[pc]
Condenser	Triple 7 Sine Wave	5	[pc]
Controller	Energy XT Pro	1	[pc]

¹ On start-up of the 4th circuit, the condenser fan starts with a delay and doesn't effect the maximum current.

Chassis			
Dimensions	Length	5560	[mm]
	Width	1250	[mm]
	Height	2700	[mm]
Service weight		3150	[kg]
Material	Steel		-
External colour (RAL)	Powder coated	6029	-
Forklift slots	Yes	1595	[mm] c-c
Compliance to standards		Yes	No
EC 98/37/CE machinery		X	
EC low voltage directive 73/23/EEC		X	
EC machinery directive 91/368/EEC of 20th June 1991		X	
Elinstallationsreglerna SS 4364000, Starkströmsföreskrifterna, ELSÄK-FS 2004:1		X	
EN 378-2 specification for refrigerating systems and heat pumps		X	
IEC 60079-15 electrical Apparatus for Explosive Gas Atmospheres		X	
PED pressure equipment directive 97/23/EEC		X	
Svensk Kynorm, last update from date of issue		X	
Svenska Elektrotekniska Normer, Svensk Standard SS-EN 60 204-1, of 21 May 2007		X	
Tryckbärande anordningar AFS 1999:4		X	
The chiller in <u>standard</u> configuration include		Include	Option
Frigadon externally mounted control panel		X	
Hydrophobic anti-corrosion treated condenser		X	
Flow sensor		X	
Pressure switches		X	
Main switch		X	
External charging points		X	
Electronically controlled fans (EC-fans)		X	
Electronic expansion valves		X	
Operating / freeze protection thermostats		X	
Silencers on discharge line		X	
Stainless steel system pressure gauge		X	
Differential pressure controlled pump			X
Internet access via web browser			X
Warm fluid defrost (WFD)			X

