Low-temperature unit
ANL 147 TTK 140/35WL-2

Electrical data	
Supply voltage	400 V / 50 Hz / 3 Ph
Max. current draw	375 A
Minimum cable cross-section for 25 m feed	5x 185 mm²

Refrigeration circuit	
Refrigerant	R449A
Number of refrigeration circuits	2

Consumer circuit	
Pump head	3,5 bar
Volume flow	30

Dimensions and weight	
Length	6.100 mm
Width	2.450 mm
Height	2.600 mm
Weight	8.500 kg

Connections	
Consumer	2x Flansch DN 100

Operating environment
Max. 35 °C Außentemperatur

Coolant
Tyfoxit F 50 Calciumchlorid 30 % Wasser / Glykol

Special equipment
Fernwartung: UMTS-Router Leistungsmessung: Kälteleistung

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Table 1: Water-cooled at +38 °C inlet (e.g. glycol) tc = 48 °C

Brine temperature [°C]	Evaporation [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-40	-	-	-	-	-	-
-35	-40	100	140.4	175.6	296.2	218
-30	-35	100	179.4	184.6	309.4	273
-25	-30	100	224.8	193	321.8	335.8
-20	-25	100	277.4	201.2	334.2	408

Table 2: Water-cooled at +27 °C inlet (e.g. cooling tower) tc = 37 °C

Brine temperature [°C]	Evaporation [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-40	-45	100	131	133.2	234.6	206.6
-35	-40	100	165.2	138.4	242.2	256
-30	-35	100	205.8	145	251.2	313
-25	-30	100	253.2	152.4	262	378.6
-20	-25	100	308.4	161	274.4	454

Table 3: Water-cooled at +8 °C inlet (e.g. chiller) tc = 20 °C

Brine temperature [°C]	Evaporation [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-40	-45	100	142.6	85.4	172	220.8
-35*	-40*	100*	178.4*	92.4*	180.6*	271.8*
-30	-35	100	221	102	190.2	324.4
-25	-30	100	270.8	108.8	201.4	383.8
-20	-25	100	328.6	118.2	214	452

The cooling capacity stated above is the net capacity at the evaporator. The heat input into the hydraulic system caused by external pumps and insulation losses must be taken into account.

** Rated operating point*

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