



Low-temperature unit ANL 146 TTK 90/35WL-2-E

Electrical data

Supply voltage	400 V / 50 Hz / 3 Ph
Max. current draw	317 A
Power at rated load	129.9 kW
Minimum cable cross-section for 25 m feed	5x 120 mm ²

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	7.900 kg

Connections

Consumer	2x Flansch DN 100
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Operating environment

Max. 35 °C Außentemperatur

Coolant

Tyfoxit F 50 Calciumchlorid 30 % Wasser / Glykol
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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	86	113.6	181.6	133.4
-30	-35	100	109.6	119	189.8	167
-25	-30	100	137.2	124.2	197.6	205
-20	-25	100	177.2	129.2	204.8	248.2

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	77.2	82.6	135.6	121.4
-35	-40	100	98	87	142	151.8
-30	-35	100	122.8	91.6	148.6	186.8
-25	-30	100	151.6	96	155.4	226.8
-20	-25	100	185.2	100.8	62.4	272.4

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	79.2	53.4	95.4	122.6
-35*	-40*	100*	101*	58.4*	101.8*	153.8*
-30	-35	100	126.8	62.8	107.8	190.2
-25	-30	100	157	67.2	113.8	226.8
-20	-25	100	192	71.8	120	267.2

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*