



## Air cooled chillers on R454B type LDE HA/SE/CO/P2U/Kr

Air-cooled chillers for the production of chilled water. The units are equipped with hermetic scroll compressors. Axial EC fans. Suitable for outdoor installation. Refrigerant R454B. These units are specially designed for cooling medium to large projects. Tandem technology offers multiple capacity stages and increases efficiency at part load. This also improves performance. Copper pipes and aluminium fins condenser coil with standard hydrophilic coating. **Only sell to certified air-conditioning installers. Mandatory commissioning by CAIROX.**

### Brand

- Emicon

### Application

- Outdoor air/water chillers suitable for comfort and process cooling applications

### Characteristics

- Cooling capacity: 19 to 335 kW

### Composition

- Refrigerant gas R454B
- Scroll compressors with crankcase heater and thermal overload
- Power supply 400V/3ph/50Hz
- Microprocessor controller
- Condenser coil with fins hydrophilic coating

### Options

- A1NTU Pump group with 1 pump
- A2NTU Pump group with 2 pumps in parallel (1 in operation/1 standby)
- A1ZZU Pump group with 1 pump, buffer tank and expansion tank
- A2ZZU Hydraulic module with 2 pumps, buffer tank and expansion tank
- DCCF Winter control up to -20 °C (standard)
- DSSE Electronic soft starter
- FAMM Condenser coil protection grille
- INSE RS485 serial card
- KAVM Vibration dampers with springs

- KPSU1 Anti-frost kit for pump, internal piping and buffer tank (controlled by controller)
- KPSU2 Anti-frost kit for 2 pumps, internal piping and buffer tank ( controlled by controller)
- KPU1 Anti-frost kit for pump and internal piping (controlled by controller)
- KPU2 Anti-frost kit for 2 pumps and internal piping (controlled by controller)
- MAML Pressure gauges
- PCRL Remote control
- RAEV Anti-frost kit around the plate heat exchanger
- SGRS Master -Slave Cascade control system
- VTEE Electronic expansion valve (standard with VB version)
- PCP Anti-corrosion coating on the condenser coils (Powder coat RA Frost protection on evaporator (Electric heating with thermostat)
- VSC Inverter control compressors
- VSP Inverter control pump(s)
- AXT Diffuser on the axial fans
- GP Protection grille condensor
- IH RS485 serial card
- IH BAC BACNET RS485 serial card
- IWG Interface => SNMP or TCP/IP or BACNET IP or MODBUS IP
- I1 Insulation for around Victaulic flanges from pump to hydraulic lines
- I2 Insulation for around Victaulic flanges from tank to hydraulic lines

### Versions

- SE  
Standard version EC fans
- XL  
Ultra low noise version with compressors mounted on a floating frame

### Order example

#### LDE 252 /SE/CO/P2U/Kr

Explanation

**25** Nominal cooling capacity (KW)

**2** Number of cooling circuits

**SE** Standard efficiency EC fans

**CO** Cooling Only

**P2U** Two pipes configuration

**Kr** Refrigerant R454b

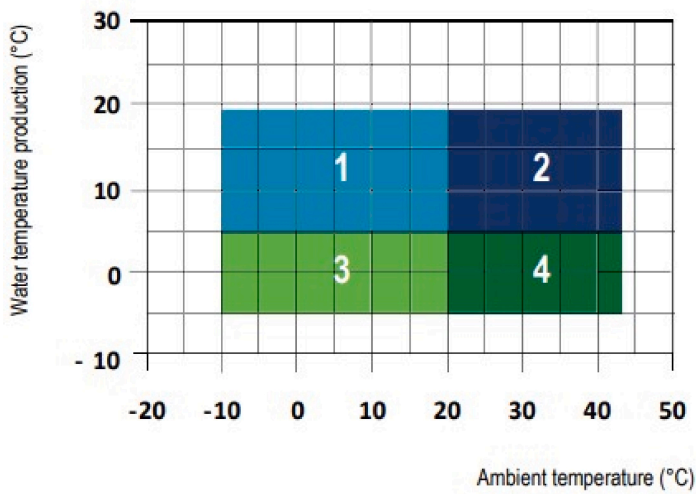
		Specifications																		
LDE SE/CO/P2U/Kr		0432	0492	0602	0702	0802	0902	1002	1202	1402	1602	1802	2002	2302	2502	2504	3004	3204	3504	4004
Cooling capacity	kW	42.1	46	54	60.5	67.2	81.1	92	102	119	131	149	166	192	211	206	239	262	297	335
Total power input	kW	13.9	15.2	17.3	19.9	22.3	26.5	30.3	34	38.5	43.4	49.3	54.8	63.4	69.6	68	78.7	86.5	98.1	111
SEER		4.11	4.12	4.2	4.19	4.19	4.14	4.13	4.12	4.12	4.19	4.13	4.17	4.18	4.13	4.12	4.13	4.15	4.17	4.19
Refrigerant (GWP)		R454B (466)																		
Precharged refrigerant charge	kg(CO2eq-kg)	8.5 (3.96)	8.5 (3.96)	8.5 (3.96)	8.5 (3.96)	14.5 (6.76)	17 (7.92)	17 (7.92)	17 (7.92)	17 (7.92)	18 (8.39)	30 (13.98)	25 (11.65)	33 (15.378)	33 (15.378)	40 (18.64)	40 (18.64)	50 (23.3)	60 (27.96)	70 (32.62)
Water flow	m³/h	7.25	7.91	9.30	10.41	11.56	13.95	15.83	17.62	20.54	22.55	25.62	28.62	33.08	36.24	35.39	41.08	45.11	51.03	57.63
Water pressure drop	kPa	12.2	9.8	13.3	13.5	12.1	17.9	21.9	25.8	20	19.9	12.8	15.2	27.5	15	47.4	54.5	36.3	33.8	33.7
Sound pressure level	dB(A)	43	45	45	45	46	51	52	53	55	56	56	56	57	59	57	58	59	59	59
Cooling capacity: Outdoor temperature 35°C - chilled water temperature in/out 12/7°C																				
Sound pressure level calculated according to ISO 3744 at 10 m distance from the unit																				

		Dimensions																		
LDE HA/SE/CO/P2U/Kr		432	492	602	702	802	902	1002	1202	1402	1602	1802	2002	2302	2502	2504	3004	3204	3504	4004
L	[mm]	2400	2400	2905	2905	2905	2905	2905	2905	3965	3965	3965	3965	3965	3965	4265	4265	4265	4265	4805
W	[mm]	1145	1145	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	2210	2210	2210	2210	2210
H	[mm]	1673	1673	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	2220	2350	2350	2350	2350	2350
Gewicht/Poids	[kg]	690	720	1040	1060	1070	1100	1140	1210	1530	1550	1570	1590	1750	1780	3120	3170	3220	3270	3610

### Prices

Detailed selection / quotation available on request





- 1** Cooling mode with cond. press. contr.
- 2** Cooling mode without cond. press. contr.
- 3** Cooling mode with cond. press. contr. and glycol (Only BT ver)
- 4** Cooling mode without cond. press. contr. and glycol (Only BT ver)