

Rel. 7.1.2

**Messrs.:** ----  
**FAO:** ----  
**Offer No.:** 265  
**Position:** 1  
**Project:** HANKA  
**Date:** 2015-01-20

<b>MODEL</b>	<b>KT3Y 1280.2 - R410A</b>	<b>EUR</b>	<b>7.780,00</b>
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### HEAT EXCHANGER

The coil is made of copper tubes located in staggered pitch geometries and with high efficiency aluminum fins with 2,1mm pitch.

The header manifolds are made of copper. The coil end plates and the intermediate tube supports are in aluminium. The counter flow design of the circuits significantly increases the heat transfer efficiency of the coil.

Leak and strength tested with dry air (PED 97/23).

### CASEWORK AND CASING

Designed and produced according to the kit principle, made from hot dip galvanized steel sheet, powder painted (standard colour: RAL 9002) and corrosion resistant. All operations necessary to manufacture the modular components - punching, drilling, bending - are carried out before painting so that all surfaces are fully protected. All screws, rivnuts, washers and rivets are in stainless steel. A covering panel prevents the return bends from being hit and damaged.

Suitable for Corrosivity Category: C3 - Medium (according to ISO/EN 12944)

### AC FANSETS

3-phase 400V  $\pm 10\%$  / 50Hz; 2 speeds possible: high (Delta configuration) or low (Star configuration); insulation classes B and F; built-in thermal contact; protection class IP54.

Sound power levels according to EN13487. The sound pressure level for this condenser is calculated in free-field conditions for every single fan as stated by the fans constructor in compliance with EN 13487. The sound pressure figure is merely indicative as it is affected by the installation site characteristics.

### ACCESSORIES

Q - Wiring and switchboard	<b>EUR</b>	960,00
R - Electronic 3~ voltage controller (phase-cut)	<b>EUR</b>	1.150,00
A - Anti vibration mounts	<b>EUR</b>	390,00

<b>UNIT PRICE</b>	<b>EUR</b>	<b>10.280,00</b>
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<b>QUANTITY</b>	<b>1</b>	
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<b>TOTAL OFFER</b>	<b>EUR</b>	<b>10.280,00</b>
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## DESCRIPTION OF THE ACCESSORIES:

### Q - Wiring and switchboard

Generalities:

- Execution in compliance with CE regulations
- Housing in plastic material resistant to UV rays; protection class IP55
- Cables suitable for outdoor use
- Factory fitted and wired
- Key-lockable door

Technical features:

- Power supply: 3~ 400V / 50Hz
- Mains Switch
- Fan malfunction red indicator lamp
- Power supply green indicator lamp
- Fused protection for fans and controllers
- Connector for fan speed controller (phase-cut or inverter)
- Contact for ON/OFF remote control
- Contact for additional thermostat
- Free contact for fan malfunction alarm

NOTE: The switchboard and the electrical protections are designed for the total absorbed fan current. For the AC fans this value strictly depends on the motor windings (Delta or Star)

### R - Electronic 3~ voltage controller (phase-cut)

WARNING! ELECTROMAGNETIC MOTOR NOISES MAY ARISE AND BECOME DOMINANT IN PART LOAD DUE TO RESONANCES. THIS COULD CAUSE THE FINAL SOUND PRESSURE AND POWER LEVELS OF THE FANS TO BE HIGHER THAN THOSE DECLARED IN THE TECHNICAL DATA SHEET OF THE UNIT.

Function:

Programmable voltage-based speed control for continuous speed adjustment on variable voltage three-phase motors.

Generalities:

- LCD-Multifunctional display with plain language text
- 2 analog inputs (0-10V, 0-20mA, 4-20mA, temperature/pressure sensor)
- 1 output 0-10V, function programmable
- 2 digital inputs, function programmable
- 2 relay outputs, function programmable: fault indication/alarm signal, external group control
- Total protection of the motors by means of thermocontact / thermistor connections
- RS485 Interface for MODBUS networking
- Factory fitted, wired and pre-programmed ready for use
- Temperature or pressure sensor factory fitted and connected

Optional (on request):

- LON expansion module

Technical features:

- Power supply: 3~ 208-480V (-15% / +10%), 50/60Hz
- Voltage supply for sensors: +24V +20% (Imax 120mA)
- EMC emission EN 61000-6-3; EN 61000-3-2
- EMC immunity EN 61000-6-2
- Max. admitted ambient temperature +40°C (up to +55°C with derating)
- Max. admitted relative humidity to avoid condensation: 85%
- Protection class IP54

Setting modes available:

- Set point 1: fluid out temperature or refrigerant pressure
- Set point 2: fluid out temperature or refrigerant pressure
- Controller alarm
- Min. and max. output voltage, speed limitation (e.g. for night operation)
- External group control (adiabatic cooling system)
- Cut-off of fans in low usage (minimum air volume)
- Other programming modes available on request (e.g. frost protection, heat activation, stalled motor heating, etc.)

NOTE: The controller is designed for the total absorbed fan current, which value depends on the motor windings (Delta or Star)

### A - Anti vibration mounts

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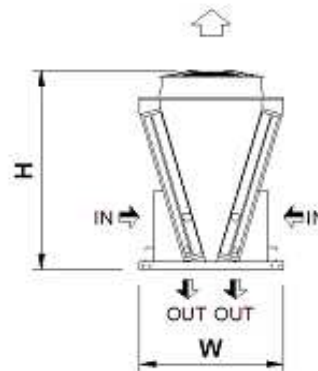
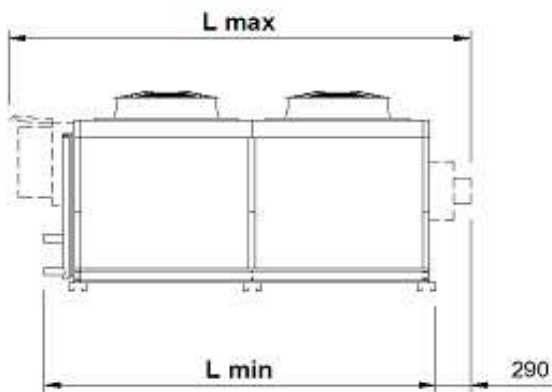
## MODEL

**KT3Y 1280.2 - R410A**



## TECHNICAL DATA SHEET

Nominal capacity	85,0	[kW]	Tc - mid-point	43,4	[°C]
Refrigerant	R410A		Internal volume	35,3	[dm³]
Ambient	32,0	[°C]	Air volume	25 760	[m³/h]
Noise pressure level in free field	40	[dB(A)]	measured at	10	[m]
Noise power level	72	[dB(A)]	Altitude	0	[m]
Fans power input/nominal	2 X 0,5/0,5	[kW]	Absorbed fan current/nominal	2 X 1,02/1,02	[A]
Energy rating	B		Fan speed	520	[rpm]
Surface area	329	[m²]	Dry weight	470	[Kg]



DIMENSIONS	
[mm]	
L min	3.200
W	1.180
W2	0
L max	3.760
H	1.790
H2	0

Dimensions and weight are not binding.  
 Tolerances according to RS 7/C/008 - 2014 paragraph VII.  
 Energy class calculated with optimised coil circuit.