

Selection code: 1697720

# Database: 1.0.8

SELECT

Software: HiSelect 1.0.8

## **CHA/K726-P**

TECHNICAL DATASHEET

## AIRCOOLED LIQUID CHILLERS WITH AXIAL FANS, SCROLL COMPRESSORS AND PLATE EXCHANGER

















The picture and the descriptions are only a sample of the selected unit. The real unit configuration can change depending on versions and or accessories selected.

### **TECHNICAL FEATURES**

### General description.

Aircooled liquid Chillers with axial fans for outdoor installation.

#### Frame

Self-supporting galvanized steel frame further protected with polyester powder painting. Easy to remove panels allow access to the inside of the unit for maintenance and other necessary operations.

### Compressors

Scroll with oil sight glass. They are fitted with internal overheat protection and crankcase heater. They are installed on rubber shock absorbers.

#### Fans.

Axial fans directly coupled to an Inverter three-phase electric motor with external rotor. A safety fan guard is fitted on the air flow discharge.

### Condenser

Made up of two finned coils with copper pipes and aluminium fins. Circuits are made to create two independent circuits.

### **Evaporator**

AISI 316 stainless steel braze welded plate type, with two independent circuits on the refrigerant side and one on the water side.



Selection code: 1697720

Software: HiSelect 1.0.8 Database: 1.0.8

## TECHNICAL DATASHEET HISELECT

## **CHA/K726-P**

#### **Electical board**

It includes: main switch with door safety interlock; fuses; thermal protection relays for compressors; thermocontacts for fans; interface relays; electrical terminals for external connections.

### Microprocessor

For automatic control of the unit, allowing continuous display of the operational status of the unit, control set and real water temperature and, in case of partial or total block of the unit, indication of security device that intervened.

## Refrigerant circuit.

Each unit includes two independent refrigerant circuits. Made of copper pipe, it includes the following components on all models: electronic thermostatic expansion valve; cooling circuit shut-off valve on liquid line; filter drier; liquid and humidity indicator; high and low pressure switch (with fixed setting); safety valve.

#### Water circuit.

It includes: evaporator; temperature sensor; antifreeze sensor; water differential pressure switch; circulating pump; expansion vessel; manual air vent; water drain; safety valve; thermal relay.

### **ACCESSORIES**

EC - EC Inverter fans

PS - Single circulating pump



Selection code: 1697720

Software: HiSelect 1.0.8 Database: 1.0.8

**SELECT** 

## **CHA/K 726-P**

TECHNICAL DATASHEET

## **TECHNICAL DATA**

Unit		CHA/K 726-P
Refrigerant		R410A
Refrigerant circuits		2
Refrigerant charge		30
Cooling conditions		
Ambient air - Temperature	°(	35.0
Ambient air - Relative humidity	<u></u> %	50
Fluid		Water
Inlet fluid temperature	°(	12.0
Outlet fluid temperature	°(	7.0
Flow rate	I/s	9.48
Pressure drops	kPa	40.0
Elevation	m	0
Cooling performances		
Cooling capacity	kW	199.0
Compressors absorbed power	kW	60.6
Total absorbed power (1)	kW	68.0
EER		2.92
SEER (*)		4.13
Energy efficiency (*)	%	162



Selection code: 1697720

Software: HiSelect 1.0.8 Database: 1.0.8

## **E**SELECT

# **CHA/K 726-P**

TECHNICAL DATASHEET

Con	npressor	c
COL	iibi ezzoi	2

Туре		Scroll
Number	n°	6
Capacity steps	%	0/17/33/50/67/83/100
Minimum capacity step	<u></u> %	17

## Fan section

Exchanger coil		Finned coil Cu-Al	
Туре		EC Axial	
Number	n°	4	
Airflow	m <sup>3</sup> /s	20.6	
Fans absorbed power	kW	7.4	
Fans absorbed current	A	11.9	
Fans available static pressure	Pa	0	

## Hydraulic section (User side)

Heat exchanger		Plate
Fouling factor	m <sup>2</sup> °C/W	0.0000000
Minimum water circuit content		630
Water connections		DN100



Selection code: 1697720

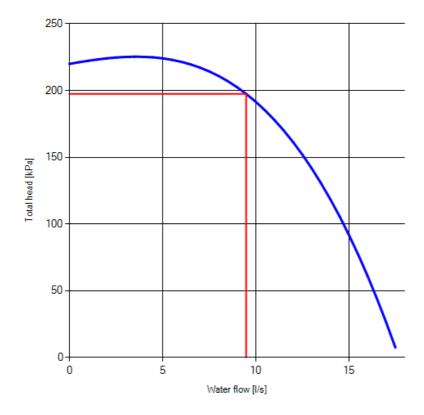
Software: HiSelect 1.0.8 Database: 1.0.8

TECHNICAL DATASHEET HISELECT

# **CHA/K 726-P**

## Hydraulic kit

Pumps	n°	1
Pump available static pressure	kPa	158
Pump nominal power	kW	3.0
Pump nominal current	A	5.9
Maximum working pressure	kPa	600
Expansion vessel content		18



## Dimensions

Length	mm	2800
Width	mm	2200
Height	mm	2100
Weight		
Transport weight	kg	1789
Operating weight	kg	1820



Selection code: 1697720

Software: HiSelect 1.0.8 Database: 1.0.8

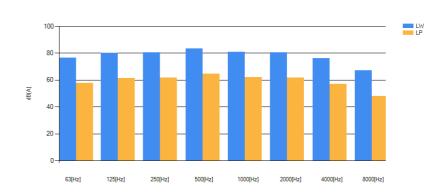
## TECHNICAL DATASHEET HISELECT

## **CHA/K726-P**

#### Sound data

Sound power (Lw) (2)	dB(A)	88.8
Sound pressure (Lp) (3)	dB(A)	70.0
Distance from the unit	m	1

Frequency	Lw	Lp	
Hz	dB(A)	dB(A)	
63	76.5	57.7	
125	80.0	61.2	
250	80.5	61.7	
500	83.5	64.7	
1000	81.0	62.2	
2000	80.5	61.7	
4000	76.0	57.2	
8000	67.0	48.2	
TOT	88.8	70.0	



#### Electrical data

Absorbed current	A	123.9
Max running current	A	152.0
Unit max starting current	A	276.0
Power supply	V-Hz-ph	400/50/3
Auxiliary supply	V-Hz-ph	230/50/1

#### Notes

(1) Compressors and fans absorbed power

(2) Sound power according to Standard ISO 3744 and Eurovent 8/1.

(3) Sound pressure measured in free field conditions. Average value as defined by ISO 3744.

(\*) Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.

The reported performances are obtained from theoretical calculations and therefore affected by tolerances.

The manufacturer reserves the right to modify the data whenever it is considered necessary, without prior notice.



Selection code: 1697720

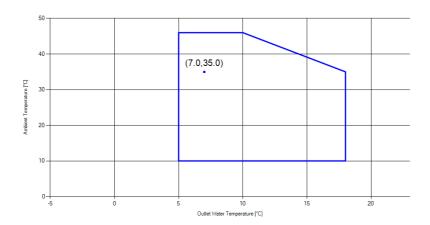
Software: HiSelect 1.0.8 Database: 1.0.8

## **SELECT**

# **CHA/K 726-P**

TECHNICAL DATASHEET

## **OPERATING RANGE: COOLING**





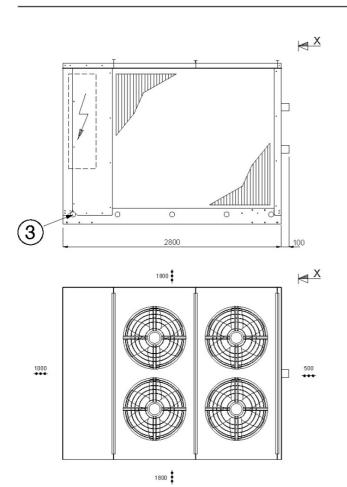
Selection code: 1697720

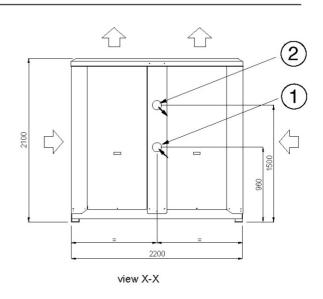
Software: HiSelect 1.0.8 Database: 1.0.8

## TECHNICAL DATASHEET HISELECT

# **CHA/K 726-P**

## **DIMENSIONAL DRAWING**







- 1) Water inlet
- 2) Water outlet
- 3) Lifting points
- 4) Clearance area



Selection code: 1697720

Software: HiSelect 1.0.8 Database: 1.0.8

## **E**SELECT

# **CHA/K 726-P**

TECHNICAL DATASHEET

PRODUCT FICHE accordin	g to European	Regulation 201	6/2281: Informat	tion requirements for comfor	t chillers		
Model:	<u> </u>			CHA/K 726-P			
Outdoor side heat exchar	nger of chiller:						Air
Indoor side heat exchang	ger of chiller:						Water
Type: compressor driven	vapour compre	ssion					
Driver of the compressor:	electric motor						
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated cooling capacity	P <sub>rated,c</sub>	198.68	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	162.2	%
Declared cooling capacity	y for part load	at given outdoo	r temperatures	Declared energy efficienc	y ratio or gas	utilisation efficien	cy/auxiliary energy
	Tj					outdoor tempera	tures Tj
Tj =+ 35℃	$P_{dc}$	198.68	kW	Tj =+ 35℃	EER <sub>d</sub>	2.89	-
Tj =+ 30°C	$P_{dc}$	146.57	kW	Tj =+ 30°C	EER <sub>d</sub>	3.34	-
Tj =+ 25°C	$P_{dc}$	92.97	kW	Tj =+ 25℃	EER <sub>d</sub>	4.83	-
Tj =+ 20°C	$P_{dc}$	41.38	kW	Tj =+ 20°C	EER <sub>d</sub>	5.8	-
Degradation coefficient for air conditioners	C <sub>dc</sub>	0.90	-				
		Power o	consumption in m	nodes other than "active modes	de"		
Off mode	P <sub>OFF</sub>	0.10	kW	Crankcase heater mode	$P_{CK}$	0.48	kW
Thermostat-off mode	P <sub>TO</sub>	0.71	kW	Standby mode	$P_{SB}$	0.10	kW
			Ot	her items			
Capacity control		variable		For air-to-water comfort chillers:air flow rate, outdoor measured	1	104607.2	m3/h
Sound power level, indoors	LWA	-	dB(A)	For water/brine-to- water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m3/h
Sound power level, outdoors	L <sub>WA</sub>	88.8	dB(A)	Ĭ			
GWP of the R410A	1	924	kg C	.0 <sub>2 eq</sub> (100 years)			
Standard rating condition	ns used:		Low temperatu	ıre application			