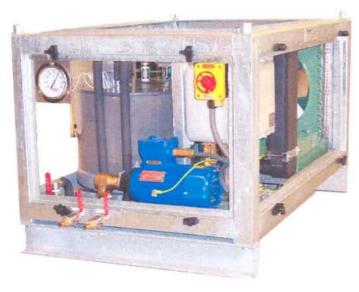
Interline





Model CRC 1700 series Closed loop chiller system

Introduction

The CRC-1700 series closed loop chiller systems are designed specially to provide an independent source of coolant for analysers and analyser systems.

The unit is ideal for use in applications where the plant cooling systems cannot meet the specific coolant requirements for analyser systems.

The units are skid mounted and of a modular design, ensuring easy adaption to specific requirements. The units are designed for extended periods of unattended and trouble free operation.

Description

The CRC-1700 series chiller units are air blast cooled compression type refrigeration units, utilising Freon as refrigerant in order to maintain a preset temperature in a coolant container.

Each unit is comprising of:

- Compression type refrigeration unit including prefilled and sealed refrigerant circuit.
- Stainless steel insulated coolant container with coolant circulation pump and bypass.
- Control unit with thermal overload protection for both compressor and circulation pumpmotor.

The coolant is continuously circulated through the external consumers and returned to the atmospheric container via a circulation pump inside the unit.

An adjustable bypass is installed to maintain sufficient circulation over the Freon vaporiser coil. Coolant is made available from bulkhead fittings in the base frame.

In the refrigerant circuit a number of devices are installed to prevent damage to the unit and to ensure safe and unattended operation on a continuous basis.

Safety devices:

- moisture filter and dryer
- liquid catcher
- suction pressure control
 - low and high pressure switching
- crank case heating (if required)

All components in the freon circuit, with the exception of the compressor and condenser, are free of maintenance. Special care has been taken in the selection of components in this freon circuit on their technical specifications as well as world wide distribution, this minimizing down time if component failure occurs

The control unit provides a DOL starter relay with thermal overload protection for the compressor motor, all required switching for automatic operation of the unit as well as fusing and motor protection switches for the coolant circulation pump.

The complete unit is mounted in a skid made of pressed galvanised sheet metal profile and fully covered with removable panels. The unit is suitable for floor mounting.

Finish

All carbon steelparts will be coated with a two-pack epoxy paint, Colour RAL 7032.

Galvanised surfaces, stainless steel and non ferreous materials will remain untreated.

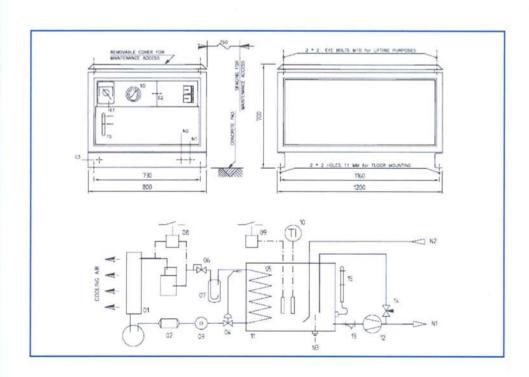
Testing

The unit is fully functionally tested on maximum capacity during a 48 hours test run at our works prior to shipment.

Conn	Description	Size
N1	Coolant outlet	12 OD
N2	Coolant return	12 OD
N3	Container drain	1/2"NPT-F (plugged)
El	Power supply	M20*1.5
E2	Signal out (option)	M20*1.5
E3	Earth stud	M10

P.No. Description

- Condenser unit
- Filter-drier
- Sight glass
- Injection valve
- Vaporiser coil
- Evaporating press. reg.
- Suction accumulator
- Pressure switch
- 9 Temperature switch
- 10 Temperature indicator 11 Coolant container
- Coolant circulation pump 12
- 13 Suction filter
- 14 By-pass valve
- 15 Level indicator



Specification

Coolant container vol. 50 litre

Refrigerant R134A

Coolant temperature -10 to +5°C

Cooling capacity (nominal) CRC-1700 - 1,3 : 1200 Watt

CRC-1700 - 1,5 : 1750 Watt CRC-1700 - 2,5 : 2200 Watt

Capacities are with +5°C coolant temperature and 25°C ambient

(RH=70%)

Ambient Conditions max. temperature +40°C / RH=80% (suitable for outdoor installation)

Circulation pump rotary vane type

capacity model 101 100 l/hr @ 10 barg discharge pressure

model 201 200 l/hr @ 10 barg " " model 301 300 l/hr @ 10 barg " "

materials body : bronze shaft : AISI 304

seals : mechanical (carbon)

Area classification Zone 1-IIB-T3. Areas acc. Cenelec

Power supply 400 VAC/50 Hz - 3 pH + Neutral

Power consumption CRC-1700 - 1,3 : 1 kW

CRC-1700 - 1,5 : 1,4 kW CRC-1700 - 2,5 : 1,8 kW

Consumption may vary with pumpunit installed and deviation in ambient

temperature and required coolant temperature.

Available options

Coolant temperature range -/- 20 to +15°C with limited field adjustability

Coolant low level alarm Volt -free SPDT contact

Coolant high temperature alarm Volt -free SPDT contact

Power supplies - 415 VAC/50-60 Hz - 3 wire - 400 VAC/50-60 Hz - 3 wire

Dual power supply - 3 pH 400 or 415 VAC for compressor and pump motor

- 1 pH 220 or 110 VAC for control unit

Irregular power supply voltages are subject to design modification

and available on request.

High capacity vane type

circulation pump capacity : 100 litre/hr @ 10 barg

materials body : Brass

shaft: AISI 304

seals: Mechanical (carbon)

Area classification - Zone 1 - IIB - T4/5

- Zone 1 - IIC - T4/5

Interline Systems BV has adopted the policy of continous product development.

Although this bulletin has been compiled with great care, current standard executions may deviate.

Application Questionnaire

CRC 1700 serie - Closed loop chiller unit

Return this page by fax for a detailed quotation of further information

Customer	:			Interline ref.	:	***************************************		
Customer ref.	;			Date	:			
Enduser	:							
Project	:							
Equipment I.D.	:							
Γag no.	:			Sheet rev.	:	0		
Ambient Cond	itions			Environment				
ambient Cond	itions	Min	Max	Environment				
Γemperature (°C)			IVIGA	Industrial / Refiner	v/Ma	rine		
Humidity (% RH)			********	(hazardous / ingres	•	irme		
rumany (70 Km)		********	********	(nazardous/ mgres	3)			
Power supply				Area Classification (specify)				
Standard 400 VAC	C / 50 H	z - 3 ph + 1	V, for					
alternative provid			.vo					
Voltage								
Frequency								
Coolant Requi	remen	ts		Cooling Capacit	ty (k	w) kW		
		Min	Max					
Temperature (°C)			*******					
Flow (L/Hr)								
Pressure (BarG)		*******	*******					
Options Requi	red			Special requirements / Remarks				





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