CHILLER MODEL IPE31 “Smart” 400/3/50 R407c

GENERAL DESCRIPTION

The chiller model IPE31 is a compact air cooled unit designed for the **fluid cooling of the industrial processes.**

The unit is supplied complete of refrigerant gas charge and **for the installation** it’s necessary **water and electrical connections only.**

TECHNICAL SPECIFICATIONS

Metal works

- **Frame** in galvanized sheet, stove-enameled with polyurethane powders
- **Bearing foots** for fixed installation
- **Frame** is made **in** anodized **aluminium** profiles
- **Panels** in galvanized steel, stove-enameled with polyurethane powders
- **Stainless steel** fixing screws
- **Drip tray** for rain water collection in case of outside installation, complete with type discharge fitting connectable without disassembling any panel

Refrigerant circuit

- **R407c refrigerant gas** charge and compressor’s oil charge
- **High efficiency** hermetic **SCROLL** compressor
- **Condensing coil** Cu/Al **protected** by accidental crash
- **Axial fan** with blades haul profile and **bearings free from servicing**
- **On/Off automatic condensing pressure control** with pressure switch
- **Refrigerant filter** with mechanical and dehydrating action
- **Liquid sight-glass** with colour-change indicator for checking gas charge and humidity
- **“NO FROST” evaporator** internally assembled into steel storage water tank externally **insulated**
- High pressure switch
- Low pressure switch

Hydraulic circuit

- **Big storage water tank externally insulated**
- Centrifugal **high pressure water pump**
- **Water pressure gauge** for the quick displaying of the outlet water pressure
- **Differential pressure switch**
- **Open expansion tank for manual solution filling.**
- **Automatically over-pressure by-pass.**
- **Water discharge valve** of quick open type, placed outside, for handling without moving any panel

Electrical cabinet

Electrical cabinet produced and wired as per applicable **IEC-EN** norms, **complete** with:

- Main switch and door-lock
- Compressor motor contactor
- Pump motor contactor
- Auxiliary transformer

Microprocessor control

Microprocessor control complete with:

- Digital user interface
- Water automatic temperature control with on/off compressor switching
- Anti-freeze protection with sensor dedicated
- Compressor’s hour counter
- Alarms management by code
- Digital input for remote control (remote ON/OFF)
- General alarm free contact and auto-diagnostic function

CHILLER MODEL IPE 31 “Smart” 400/3/50 R407c					
TECHNICAL DATA					
Cooling capacity [1]				kW	**15**
				Kcal/h	**12.900**
Cooling capacity at your conditions:				kW	**6,6**
T. IN-OUT Unfreeze solution 20%	**0 / -5°C**	Ambiante Air T.	**+30°C**	Kcal/h	**5.680**
Max total Power installed				kW	**6**
Compressor					
Number of compressors				n	1
Type of compressors				-	SCROLL
Number of refrigerant gas circuits				n	1
Refrigerant type				-	R407c
Air condensing side					
Number of fans				n	1
Total air flow rate				m^3/h	5.040
Motor power input				kW	0,32
Storage water tank					
Capacity				lt	65
Water pump					
Nominal water flow rate [Pn] [1]				m^3/h	32,6
Pressure @ Pn				bar	3,1
Motor power input				kW	0,6
Sound power level [2]				dB(A)	77
Shipping weight				Kg	280
Operating weight				Kg	350

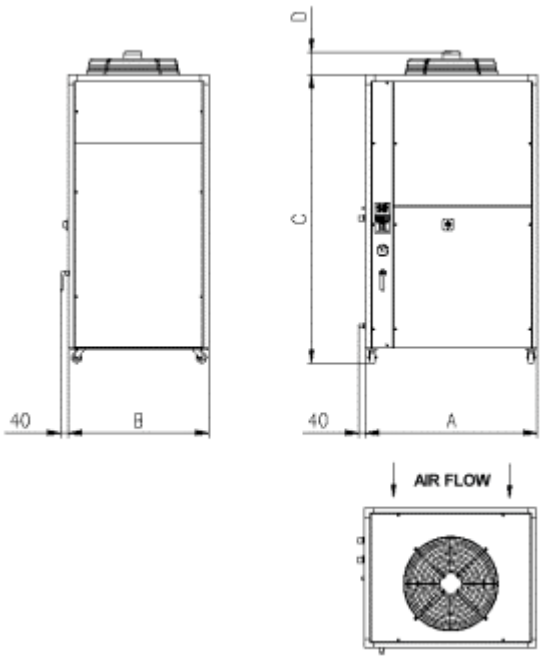
Capacities referred to:

[1] Chilled water temperature IN/OUT 20°C/15°C – Air temperature on condenser 25°C

[2] Average nominal sound power level LW [dB(A) ref. 1 picowatt] – Imprecision on ponderate level (A): ISO 2204 grade 3 survey.

DIMENSIONAL DRAWING

Length (**A**)	mm	980
Width (**B**)		800
Height (**C + D**)		1.785



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CHILLER MODEL IPE 51 “Smart” 400/3/50 R407c

GENERAL DESCRIPTION

The chiller model IPE51 is a compact air cooled unit designed for the **fluid cooling of the industrial processes.**

The unit is supplied complete of refrigerant gas charge and **for the installation** it’s necessary **water and electrical connections only.**

TECHNICAL SPECIFICATIONS

Metal works

- **Frame** in galvanized sheet, stove-enameled with polyurethane powders
- **Bearing foots** for fixed installation
- **Frame** is made **in** anodized **aluminium** profiles
- **Panels** in galvanized steel, stove-enameled with polyurethane powders
- **Stainless steel** fixing screws
- **Drip tray** for rain water collection in case of outside installation, complete with type discharge fitting connectable without disassembling any panel

Refrigerant circuit

- **R407c refrigerant gas** charge and compressor’s oil charge
- **High efficiency** hermetic **SCROLL** compressor
- **Condensing coil** Cu/Al **protected** by accidental crash
- **Axial fan** with blades haul profile and **bearings free from servicing**
- **On/Off automatic condensing pressure control** with pressure switch
- **Refrigerant filter** with mechanical and dehydrating action
- **Liquid sight-glass** with colour-change indicator for checking gas charge and humidity
- **“NO FROST” evaporator** internally assembled into steel storage water tank externally **insulated**
- High pressure switch
- Low pressure switch

Hydraulic circuit

- **Big storage water tank externally insulated**
- Centrifugal **high pressure water pump**
- **Water pressure gauge** for the quick displaying of the outlet water pressure
- **Differential pressure switch**
- **Open expansion tank for manual solution filling.**
- **Automatically over-pressure by-pass.**
- **Water discharge valve** of quick open type, placed outside, for handling without moving any panel

Electrical cabinet

Electrical cabinet produced and wired as per applicable **IEC-EN** norms, **complete** with:

- Main switch and door-lock
- Compressor motor contactor
- Pump motor contactor
- Auxiliary transformer

Microprocessor control

Microprocessor control complete with:

- Digital user interface
- Water automatic temperature control with on/off compressor switching
- Anti-freeze protection with sensor dedicated
- Compressor’s hour counter
- Alarms management by code
- Digital input for remote control (remote ON/OFF)
- General alarm free contact and auto-diagnostic function

CHILLER MODEL IPE 51 “Smart” 400/3/50 R407c					
TECHNICAL DATA					
Cooling capacity [1]				kW	**21,5**
				Kcal/h	**18.490**
Cooling capacity at your conditions:				kW	**9,47**
T. IN-OUT Unfreeze solution 20%	**0 / -5°C**	Ambiante Air T.	**+30°C**	Kcal/h	**8.150**
Max total Power installed				kW	**8,6**
Compressor					
Number of compressors				n	1
Type of compressors				-	SCROLL
Number of refrigerant gas circuits				n	1
Refrigerant type				-	R407c
Air condensing side					
Number of fans				n	1
Total air flow rate				m^3/h	5.400
Motor power input				kW	0,42
Storage water tank					
Capacity				lt	65
Water pump					
Nominal water flow rate [Pn] [1]				m^3/h	3,7
Pressure @ Pn				bar	2,7
Motor power input				kW	0,6
Sound power level [2]				dB(A)	77
Shipping weight				Kg	300
Operating weight				Kg	370

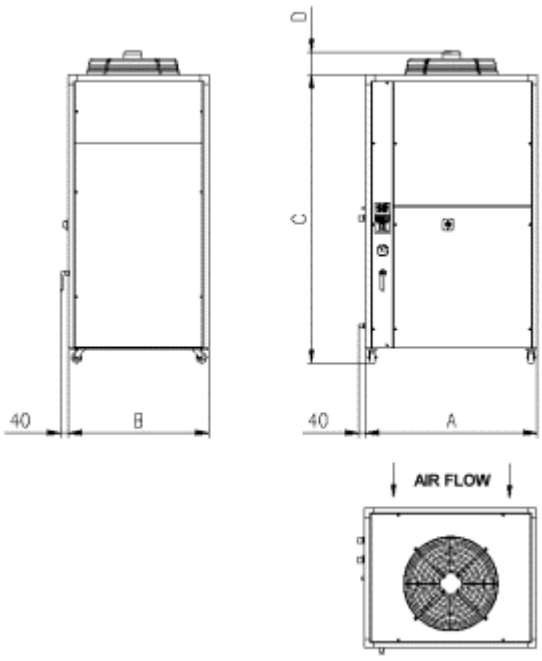
Capacities referred to:

[1] Chilled water temperature IN/OUT 20°C/15°C – Air temperature on condenser 25°C

[2] Average nominal sound power level LW [dB(A) ref. 1 picowatt] – Imprecision on ponderate level (A): ISO 2204 grade 3 survey.

DIMENSIONAL DRAWING

Length (**A**)	mm	980
Width (**B**)		800
Height (**C + D**)		1.785



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CHILLER MODEL IPE101 “Smart” 400/3/50 R407c

GENERAL DESCRIPTION

The chiller model IPE101 is a compact air cooled unit designed for the **fluid cooling of the industrial processes.**

The unit is supplied complete of refrigerant gas charge and **for the installation** it’s necessary **water and electrical connections only.**

TECHNICAL SPECIFICATIONS

Metal works

- **Frame** in galvanized sheet, stove-enameled with polyurethane powders
- **Bearing foots** for fixed installation
- **Frame** is made **in** anodized **aluminium** profiles
- **Panels** in galvanized steel, stove-enameled with polyurethane powders
- **Stainless steel** fixing screws
- **Drip tray** for rain water collection in case of outside installation, complete with type discharge fitting connectable without disassembling any panel

Refrigerant circuit

- **R407c refrigerant gas** charge and compressor’s oil charge
- **High efficiency** hermetic **SCROLL** compressor
- **Condensing coil** Cu/Al **protected** by accidental crash
- **Axial fan** with blades haul profile and **bearings free from servicing**
- **On/Off automatic condensing pressure control** with pressure switch
- **Refrigerant filter** with mechanical and dehydrating action
- **Liquid sight-glass** with colour-change indicator for checking gas charge and humidity
- **“NO FROST” evaporator** internally assembled into steel storage water tank externally **insulated**
- High pressure switch
- Low pressure switch

Hydraulic circuit

- **Big storage water tank externally insulated**
- Centrifugal **high pressure water pump**
- **Water pressure gauge** for the quick displaying of the outlet water pressure
- **Differential pressure switch**
- **Open expansion tank for manual solution filling.**
- **Automatically over-pressure by-pass.**
- **Water discharge valve** of quick open type, placed outside, for handling without moving any panel

Electrical cabinet

Electrical cabinet produced and wired as per applicable **IEC-EN** norms, **complete** with:

- Main switch and door-lock
- Compressor motor contactor
- Pump motor contactor
- Auxiliary transformer

Microprocessor control

Microprocessor control complete with:

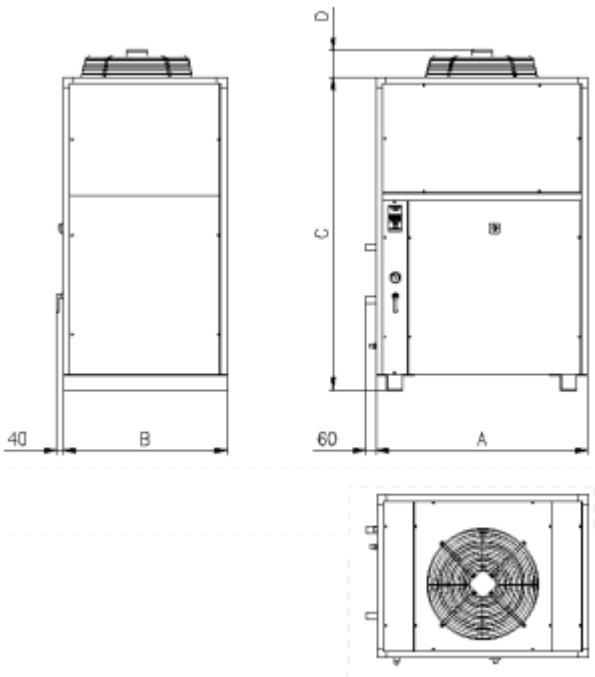
- Digital user interface
- Water automatic temperature control with on/off compressor switching
- Anti-freeze protection with sensor dedicated
- Compressor’s hour counter
- Alarms management by code
- Digital input for remote control (remote ON/OFF)
- General alarm free contact and auto-diagnostic function

CHILLER MODEL IPE101 “Smart” 400/3/50 R407c			
TECHNICAL DATA			
Cooling capacity (1)		kW	**30,8**
		Kcal/h	**26.490**
Cooling capacity at your conditions:		kW	**13,5**
Water IN/OUT t.	***I* °C** / **°C**	Kcal/h	**11.600**
Power input (1)		kW	**6,6**
Compressor			
Number of compressors		n	1
Type of compressors		-	SCROLL
Number of refrigerant gas circuits		n	1
Refrigerant type		-	R407c
Air condensing side			
Number of fans		n	1
Total air flow rate		m^3/h	9.360
Motor power input		kW	0,69
Storage water tank			
Capacity		lt	160
Water pump			
Nominal water flow rate [Pn] (1)		m^3/h	5,2
Pressure @ Pn		bar	2,9
Motor power input		kW	1,5
Sound power level (2)		dB(A)	81
Shipping weight		Kg	550
Operating weight		Kg	710

Capacities referred to:
(1) Chilled water temperature IN/OUT 20°C/15°C – Air temperature on condenser 25°C
(2) Average nominal sound power level LW [dB(A) ref. 1 picowatt] – Imprecision on ponderate level (A): ISO 2204 grade 3 survey.

DIMENSIONAL DRAWING

Length (**A**)	mm	1.280
Width (**B**)		990
Height (**C + D**)		2.055



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