iProDRY-COOLER SERIES

PROGRAMMABLE CONTROLLERS for AIR COOLERS

The **Dry Cooler** solution for complete management of units dedicated to the cooling of fluids by forced air, is ideal for machines dedicated to liquid or gas cooling, such as remote condensers. A dedicated application easily configurable and characterized by high flexibility of the unit composition (in terms of available actuators, extra functionalities and energy savings) also thanks to a graphic configurator on the integrated website.

- Optimized regulation algorithms for an efficient unit management with high energy savings
- Fan management with configuration regulated by steps or modulating of single or dual circuit
- High machine efficiency guaranteed through the adiabatic cooling management
- 3-way valve management with different configuration options
- Instant and complete visualization of the unit values thanks to the VISOGRAPH graphic display and of the plant by means of VISOTOUCH touch display
- Powerful platform based on LINUX operative system on ARM9 microprocessor (200MHz/32bit)
- Ethernet for connection to an intranet-internet network
- USB output for configuration update
- BACnet and LON (with external gateway) communications allow the system to have easy and immediate integration with different manufactures ensuring complete interoperability
- Connection to the expansion modules in order to increase system capacity

WEBSITE

The website in the iPro controllers is characterized by an intuitive interactive graphical interface and allows you to quickly configure the unit via wizard on common browsers present on the market. The remote access allows supervising and control actions of the unit providing to the service an important tool of assistance in case of any necessary maintenance action.

OPTIMIZED MANAGEMENT of the UNIT

The high connectivity and simplified configurability allow an efficient, quick and intuitive management of the unit even by remote. The application is based on function blocks and is customizable in an easy and fast way.
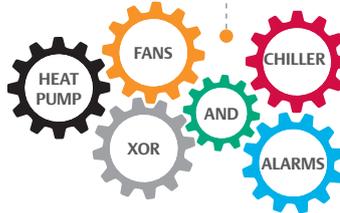
USB to download data and update the application

It is possible, for advanced users, to customize the product by adding special features, changing logics, or simply adapting it to family business feeling
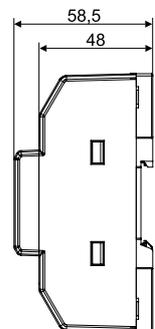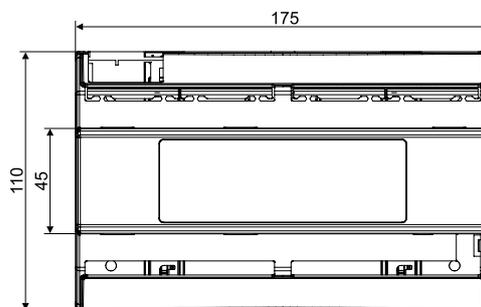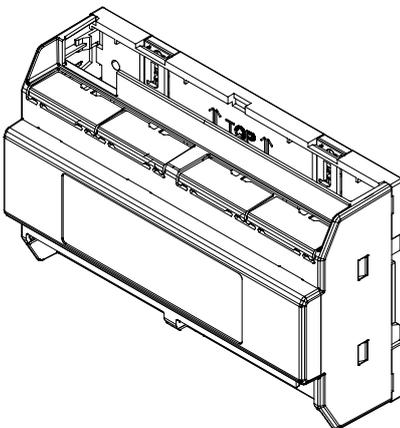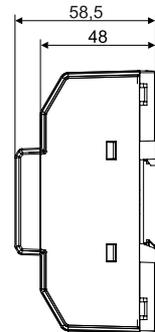
Remote accessibility for:
- CONFIGURATION
- SUPERVISION
- CONTROL
- MAINTENANCE

HEAT PUMP
FANS
CHILLER
XOR
AND
ALARMS

The control application has all the main functions grouped into intelligent function blocks placed in an editable library available to the programmer

DIMENSIONS

70

110

45

58,5

48

175

110

45

58,5

48
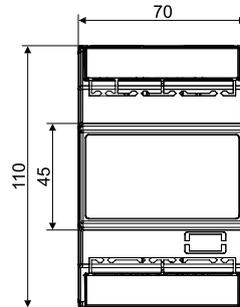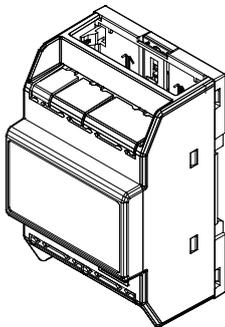
The application for the control of the Dry Cooler units features high flexibility that allows users to completely manage many configurations such as: condenser units configured as gas or water, condensers for water/water chiller units, free-cooler units for chiller units, hybrid dry cooler units and pumping stations.
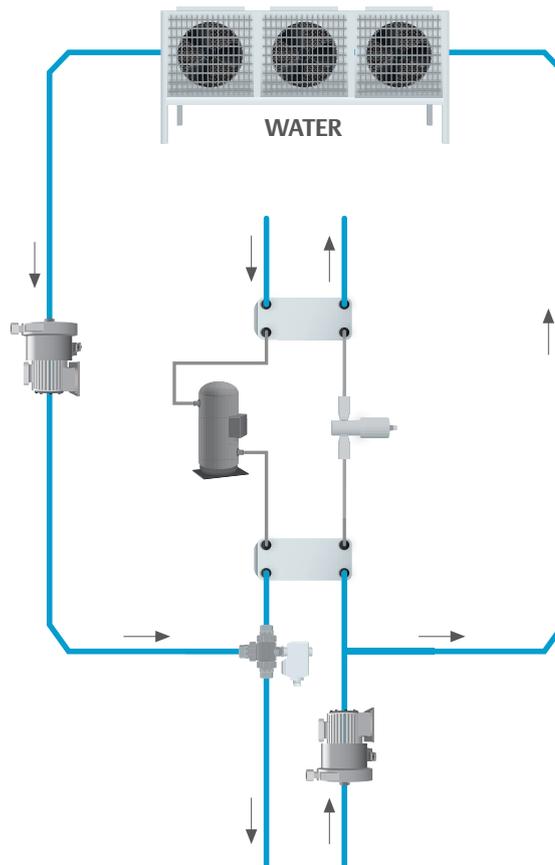
PUMPING STATIONS

Management of pumping units and of the 3-way modulating valve for temperature control, connected to a water tank system.
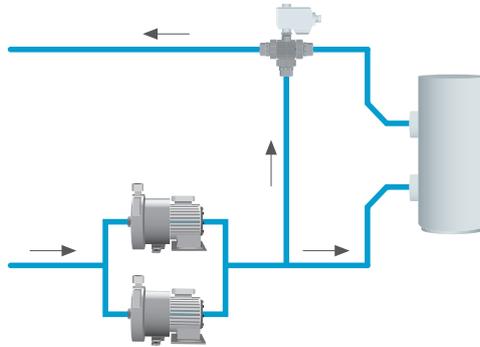

FREE-COOLER for CHILLER UNITS SUPPORT

Management of free-cooler units for chiller units with cold water production and control of the 3-way change-over valve.
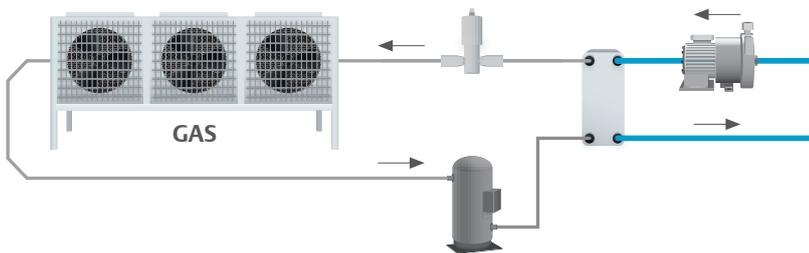

WATER

HYBRID DRY COOLER UNITS

Management of hybrid units for water/water chiller with management of 3-way change-over valve free-cooler/condenser, management of the pumping group and of the 3-way modulating valve for temperature control.

FREE COOLER
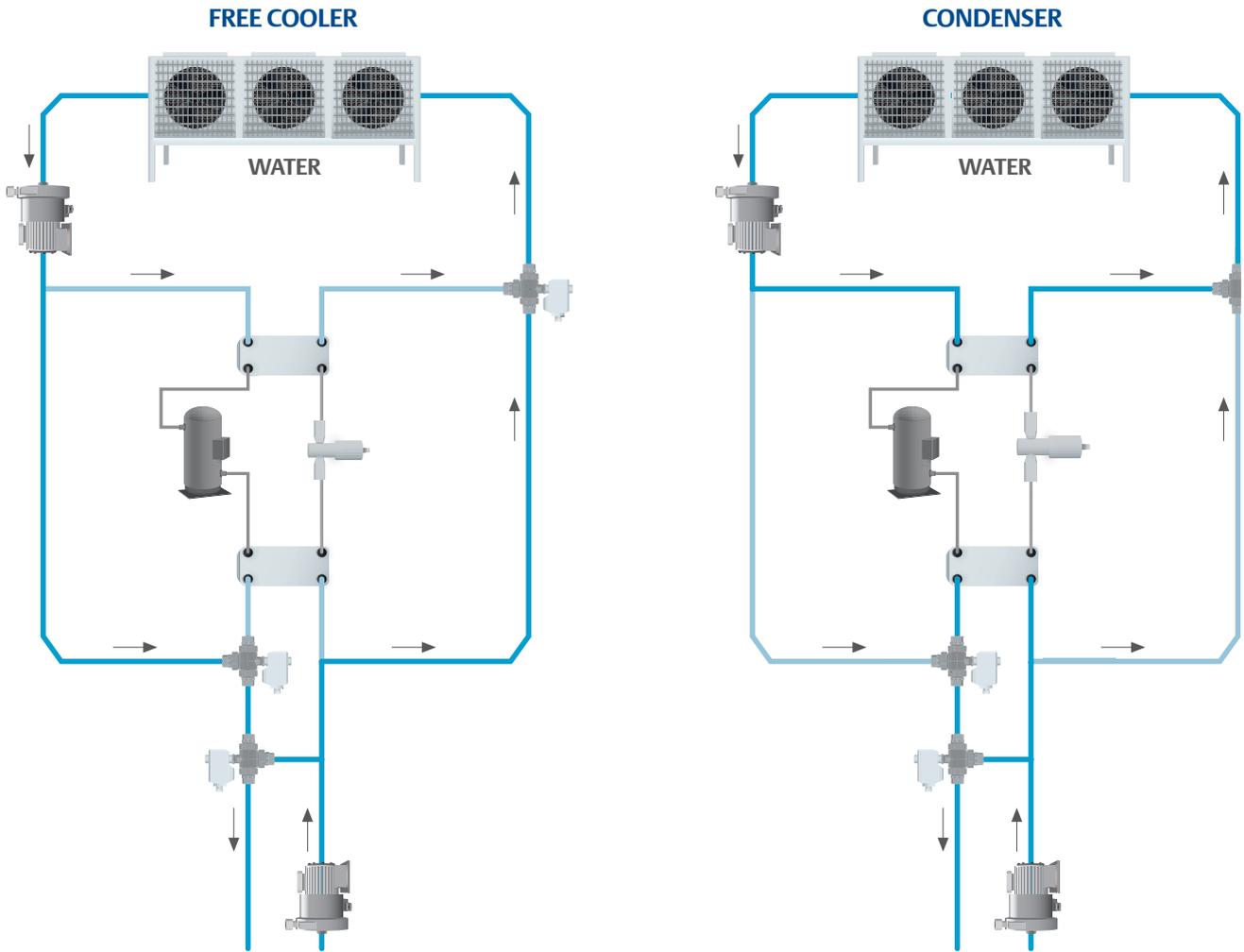
CONDENSER

REMOTE CONDENSER CONFIGURED as GAS UNIT

Management of condensing unit configured as gas for remote evaporating systems. Fan regulation according to the refrigerant pressure or temperature.

REMOTE CONDENSER CONFIGURED as WATER UNIT

Management of condensing units configured as water with pumping groups and 3-way valve for temperature control.
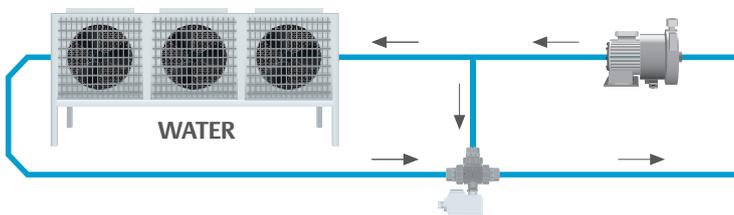
CONTROLLERS for AIR COOLERS

IPG208D W01   Programmable controller in 4 DIN format for air coolers with disconnectable screw/bayonet connectors

IPG215D W01   Programmable controller in 10 DIN format for air coolers with disconnectable screw/bayonet connectors

FEATURES	IPG208D W01	IPG215D W01
Power supply	24Vac/dc from TF40D	24Vac/dc from TF20D
Probe inputs		
Configurable	6	10
Digital inputs		
Configurable optoinsulated	11	20
Relay outputs		
Configurable	8x5A	15x5A
Other outputs		
0÷10V or 4÷20mA	4 config	2 config
0÷10V		4
RS485	pres	up to 4
USB	1xhost	up to 2xhost + 1 device
RS232		opt
LAN/RS485	pres	
CANBus		pres
Ethernet	via USB-ETH-CONV	pres
Other		
Remote keyboard	1xV2IPG/VTIPG	2xV2IPG/VTIPG
Real time clock	pres	pres
Flash memory	128MB	512MB
Connection	bayonet + screw	bayonet + screw
Connection kit	IP-FC208	IP-FC215CP
BACnet protocol	opt	opt

IPG208D W01
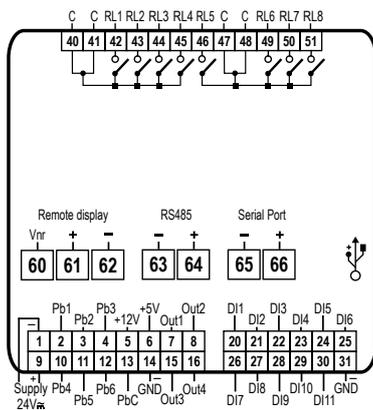
IPG215D W01
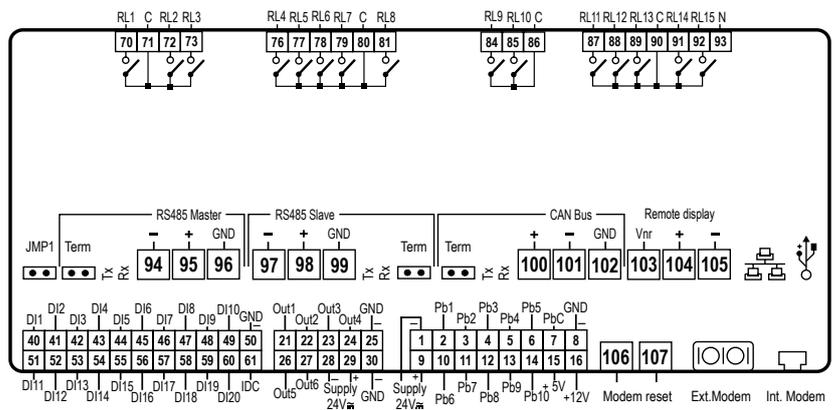
EXPANSION MODULE

IPX206D

Expansion module in 4 DIN Rail format
with disconnectable screw/bayionet connectors and 6 relay outputs

FEATURES	IPX206D
Power supply	24Vac/dc from TF10D
Probe inputs	
Configurable	7
Digital inputs	
Configurable optoinsulated	3
Relay outputs	
Configurable	5x5A + 1x8A 4x5A + 1x8A + 1xSSR opt
Other outputs	
0÷10V	3
LAN/CANBus	pres
Other	
Dip switches for addresses set	pres
Connections	bayonet + screw
Connection kit	IP-FCEX60

IPX206D