

iProCHILL SERIES

UP to 4-CIRCUIT and 16-COMPRESSOR UNIT CONTROLLERS



The controllers of the iProCHILL family are Dixell's answer to the requirements of the HVAC world; they are suitable for all **chillers, heat pump units up to 4 circuits and 16 compressors**. These instruments are complete and easy to use; they are the correct solution for the majority of the chiller-machines, including the most complex units, and can manage systems such as: **air/air, air/water, water/water, motor-condensing**.

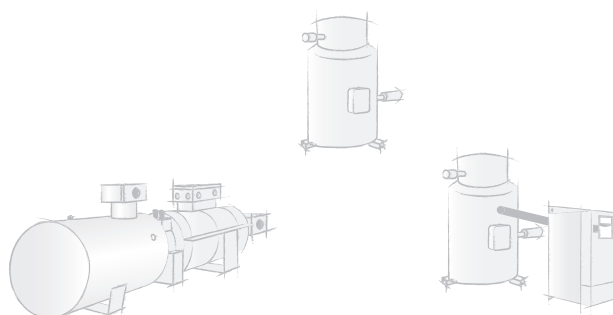
Thanks to a **high degree of connectivity**, they are indispensable for remote management of the plant's "service" centers.

- Heat pump management with sanitary hot water production
- 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
- Master/Slave RS485 serial output for connection to XWEB supervising and systems control or to applications developed by third party systems
- 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
- Connection to the drivers for electronic expansion valve management and control

KIND of COMPRESSORS

The extensive iProCHILL range allows optimal management of air conditioning units, equipped with different types of compressors of the largest manufacturers, via ModBUS, TCP/IP or through a dedicated analog signal.

- Multiscroll up to 16 compressors per circuit
- Scroll with Brushless permanent magnet motor
- Screw with regulation up to 4 capacity steps
- Stepless (only for 10 DIN format)
- Screw with inverter (also integrated)
- Reciprocating



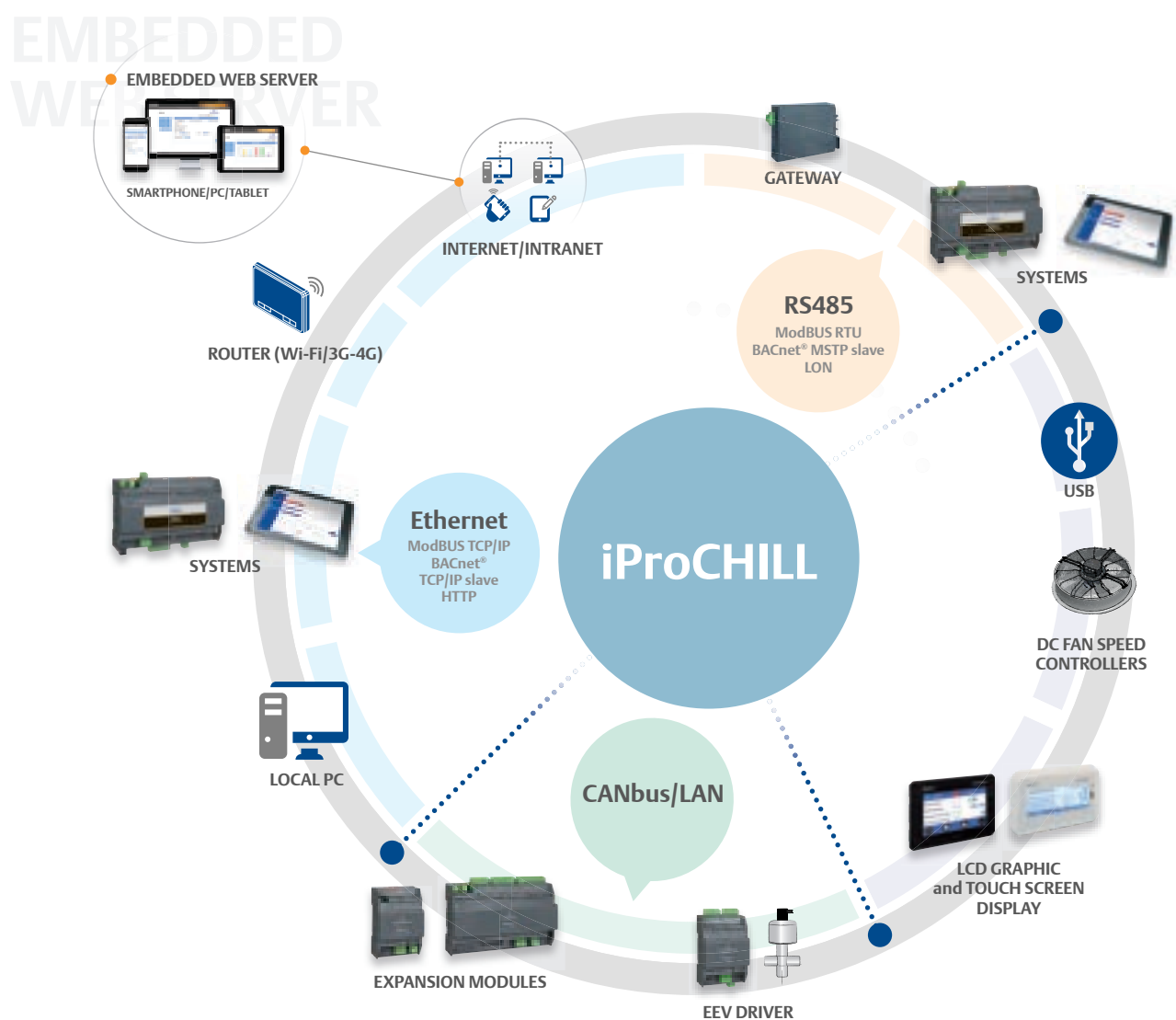
WEBSITE

A useful web server on-board of the iProCHILL allows the complete management of the units via dedicated web pages. You can publish the application, display graphics, handle variables and more.



CONNECTIVITY

The high degree of connectivity (Ethernet or RS485) of iProCHILL controllers enables local and remote management of units/plants. Some available functions are: machine status, alarms display, and commands that send modifications such as plant comfort settings and start/stop of unit/lights.



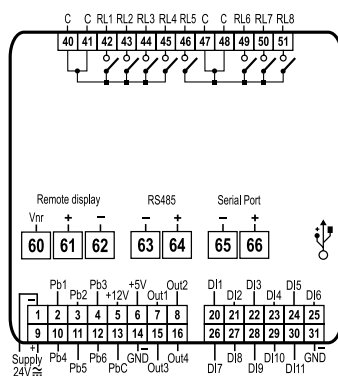
UP to 4-CIRCUIT and 16-COMPRESSOR UNIT CONTROLLERS



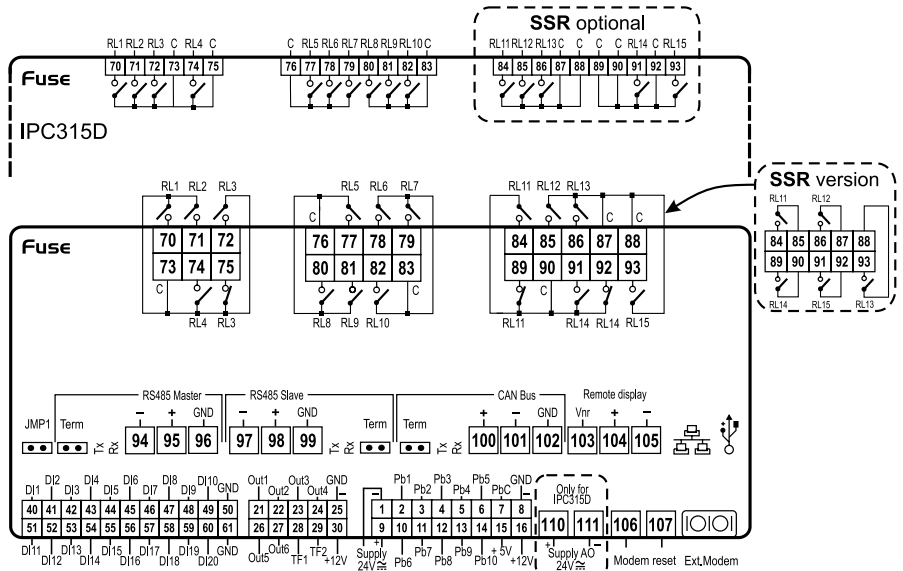
IPC108D	Controller in 4 DIN Rail format for up to 2-circuit and 6-compressor chiller and heat pumps
IPC108E	Controller in 4 DIN Rail format with LED display for up to 2-circuit and 6-compressor chiller and heat pumps
IPC115D	Controller in 10 DIN Rail format for up to 4-circuit and 16-compressor chiller and heat pumps
IPC315D	Controller in 10 DIN Rail format for up to 4-circuit and 16-compressor chiller and heat pumps

FEATURES	IPC108D	IPC108E	IPC115D	IPC315D
First display: n° digits		±4 d.p.		
Second display: n° digits		±4 d.p.		
Power supply	24Vac/dc from TF40D	24Vac/dc from TF40D	24Vac/dc from TF20D	24Vac/dc from TF20D
Probe inputs				
Configurable	6	6	10	10
Digital inputs				
Configurable optoinsulated	11	11	20	20
Relay outputs				
Configurable	8x5A	8x5A	12x5A + 3x8A 9x5A + 1x8A + 5xSSR opt	15x5A 10x5A + 5xSSR opt
Other outputs				
PWM for fan speed module				
0÷10V, 4÷20mA for fan speed module	4 config	4 config	2 config	2 config
0÷10V for external relay			4	4
RS485	slave	slave	master + slave	master + slave
USB	pres	pres	pres	pres
External modem			GSM, analog opt	GSM, analog opt
LAN/RS485 master	pres	pres		
CANBus			pres	pres
Ethernet	via USB-ETH-CONV	via USB-ETH-CONV	pres	pres
Other				
Remote keyboard	1xV2IPC/VTIPC	1xV2IPC/VTIPC	2xV2IPC/1xVTIPC	2xV2IPC/1xVTIPC
Real time clock	pres	pres	pres	pres
Flash memory	32MB	32MB	128MB	128MB
Connections	disconnectable + screw	disconnectable + screw	disconnectable + screw	disconnectable + screw
Connection kit	DWS30-KIT, IP-FC108	DWS30-KIT, IP-FC108	DWB30-KIT	DWB315-KIT, IP-FC315
BACnet protocol	opt	opt	opt	opt

IPC108D - IPC108E



IPC115D - IPC315D



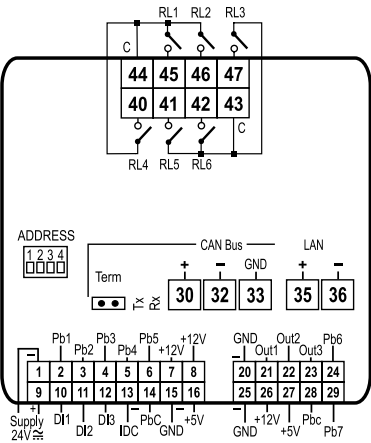
EXPANSION MODULES



IPX106D	Expansion module in 4 DIN Rail format with disconnectable connectors and 6 relay outputs
IPX306D	Expansion module in 4 DIN Rail format with screw and disconnectable connectors and 6 relay outputs

FEATURES	IPX106D	IPX306D
Power supply	24Vac/dc from TF10D	24Vac/dc from TF10D
Probe inputs		
Configurable	7	7
Digital inputs		
Configurable optoinsulated	3	3
Relay outputs		
Configurable	6x5A	5x5A + 1x8A 4x5A + 1x8A + 1xSSR opt
Other outputs		
0÷10V	3	3
LAN/CANBus	pres	pres
Other		
Dip switches for addresses set	pres	pres
Connections	disconnectable	disconnectable + screw
Connection kit	DWEX60-30KIT	DWEX306-30KIT

IPX106D



IPX306D

