CPU iSCU th S 2O

Ref. 27EV000022

TECHNICAL SPECIFICATIONS

GENERAL	
Technology	Patent pending
Maximum load	≤22W (Stand-by ≤1W) *(1)
Rated Impulse voltage	12 V DC
Ingress Protection Rating	IP53
Hydraulic connections	1/2" & 3/8" M-GAS, John Guest
Weight	0.4 kg

TEMPERATURE	MINIMUM	MAXIMUM
Recommended input hot water range	48 °C	65 °C
Recommended input cold water range	5 °C	28 °C
Maximum inlet temperature	65 °C *(2)	
Minimum inlet temperature	>0 °C	
Mixed range	Full Cold – 44 °C *(3)	

PRESSURE	
Maximum dynamic	5 bar (0.5Mpa)
Minimum dynamic	1 bar (0.1Mpa)
Recommended dynamic	3 bar (0.3Mpa)
Maximum differential supply	4.5 bar (0.45Mpa)
Burst	>35 bar (3.5Mpa)

FLOW RATE (3 bar, DN13)	MINIMUM	MAXIMUM
Mixed water free flow	4 L/min	24 L/min
Full Cold or Full Hot water free flow	4 L/min	13.3 L/min
Mixed free flow + diverter	4 L/min	22.3 L/min
Full Cold or Full Hot free flow + diverter	4 L/min	13.1 L/min

*(1) Without deviator. With Sedal deviator ≤22 W (Stand-by ≤1W)
*(2) Up to 80 °C less than 20 min
*(3) Configurable up to Full Hot on OEM demand

DESCRIPTION

Smart electronic device with digital reading and accurate, stable, thermostatic regulation of water temperature and flow rate at the point of use. Designed to be integrated in showers with 2 outlets. The device can control 2 NC valves as electronic diverter.

FEATURING

- Thermostatic control
- Flow static control
- Automatic start-up
- Pause
- Eco shower mode
- 3 users memory
- Control Up to 2 outlets
- Shower parameters setup
  - Max. Min. water temperature
  - Max. Min. flow rate
  - Time of use
  - Time of pause
- Special functions
  - Warmup shower
  - Child Shower
  - User configurable programs
  - Intelligent Bath fill mode
- Maintenance functions
  - Thermal disinfection
  - Impurity cleaning process
- Consumption parameters Reading and control
  - Hot and cold temperature (inlets) & mixed (outlet)
  - Hot and cold flow rate (inlets) & mixed (outlet)
  - Water volume (cold, hot, mixed)
  - Time of use
- Maintenance alarms and error diagnosis
  - Cold and hot water leakage
  - Cold and hot water failure
  - Hot water temperature low
  - Cold water temperature high
  - Sensor malfunction
  - Special function error
  - Maintenance function error

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STANDARDS

ELECTRIC STANDARDS

EMC: EN 55014-1, EN 55014-2
SAFETY: EN 60335-1
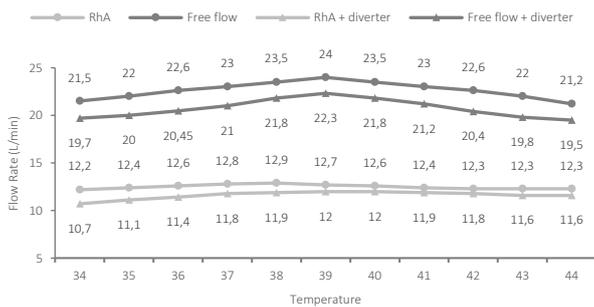RoHS: IEC 63000

HYDRAULIC STANDARD

QB2806-2017
EN-817
EN-1111
ASME #112.18.1
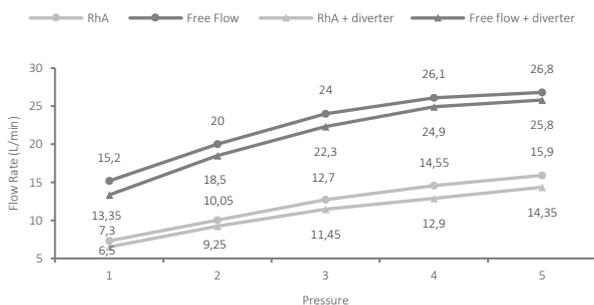ASSE #1016-T,-P*

SANITARY STANDARDS

ACS
KTW/W270
WRAS
NSF61

FLOW RATE DETAIL

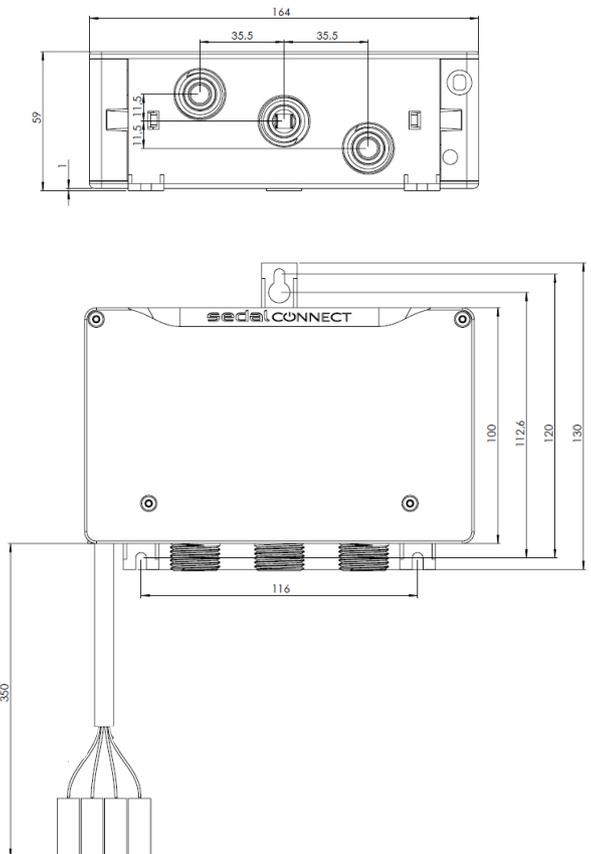### MAX FLOW RATE vs TEMPERATURE (3 BAR DN13)

MIX FLOW RATE vs PRESSURE (DN13)

CONNECTIVITY

RS485 Modbus RTU standard with open memory map registers to control the device.

TECHNICAL DIMENTIONS

INSTALLATION REQUIREMENTS

Installation of filters Mesh 80 in the hydraulic line.
Position, size and type of filter must be mounted upstream of the mixer and acc. to EN817/ASME 112.18.1M