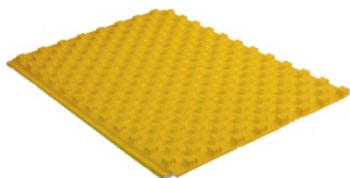


SYSTEM N° 2
RESIDENTIAL KNUCKLED WC 17
ELEMENTS DESCRIPTION (*warm cooling*)



P5

knuckled slab 5 treaded density 30 Kg; bugnato e battentato; with anti diffusion plastic film yellow; $\lambda_D=0,034$ W/mK sintered expanded polystyrene insulation; printing closed cell; marked CE; compliant in accordance to UNI 13163 e EN 1264/4; 200 kPa; surface 1200 x 800 (0,96 m²).

R_D m·K/w 0,6; 0,75; 0,885; 1; 1,264; 1,542; 1,828; 2 (according to the different ticknesses in range, according EN 1264)



CPA 15/6

perimeter band of flexible polyethylene foam, ensures the termal expansion of the screed. Adhesive strip on the whole rear side to more easy installation, with a strip of PE welded to avoid acoustic bridges due to infiltration down the slab. Height mm. 150 thickness mm. 6



PE-Xa 17x2

crosslinked polyethylene pipe with peroxide method, equipped with oxygen barrier evoH. Raw material is high density polyethylene (HDPE) 951 kg/m³, this pipe has a a lower degree of crystallization which makes the same more flexible than that of the competitors. The pipe is crosslinked immediatley after the exit from the extrusion head by heating with an infrared radiation at high power and short wavelenght with a degree >75%.

Certifications: IIP; CSTB; SKZ; IQNET; AENOR

DIN EN 12318-2 (former DIN 16892) compliant in accordance to ASTM F876 / F877.

SYSTEM N° 2
RESIDENTIAL KNUCKLED WC 17
ELEMENTS DESCRIPTION (warm cooling)



PE-RT 17x2

polyethylene pipe with oxygen barrier evoH, this particular type of extrusion allows the high malleability of the pipe also in winter. Raw material is polyethylene with high thermal resistance with evoH oxygen barrier. According to DIN EN ISO 22391. IIP n° 261 / 2011 – Rev. 0 certifies that the product described complies with requirements indicated and IIP specified in the general regulations and special rules applicable and evaluated against the requirements document Sincert RT06



SWELL VESTA

isothermal dehumidifier or ceiling with recessed battery before and after treatment with water-bearing structure in galvanized steel centrifugal fan, motor and filter embedded in polyurethane, CE certified.

vertical version

Structure made of galvanized steel. Employed for the summer dehumidification and cooling system environments using radiant panels, is designed to be installed only inside. It is not possible, therefore, installed outside the unit. Will deliver to the air at neutral temperature compared to air environment using a battery that comes post-circulated cooling water from the radiators. Or it can provide air conditioning in the plus version.

Is controlled by the system of regulation and control eventually also with multiple devices in parallel

Composed by:

Refrigerant circuit consisting of batteries pre-treatment and post-treatment with copper pipes.

Copper tubes and aluminum fins Treaty.

Reciprocating compressor mounted on springs

Capillary expansion

Filter drier

SYSTEM N° 2
RESIDENTIAL KNUCKLED WC 17
ELEMENTS DESCRIPTION (*warm cooling*)



DUOKLIM WC

climate control unit to be recessed in the wall for distribution both high and low temperatures; composed of that elements:

steel cabinet; polyamide manifold (reinforced with glass fiber) for low temperature, polyamide manifold (reinforced with glass fiber) for high temperature (2 ways for radiators) thermostat security TCS 47; three ways valve BUL 57 with motorized actuator AXS 111 (24 V) TCB 34; double by pass valve; n. 2 thermometer TB 12; n. 2 automatic airvent; n. 2 filling valve; ; a 3 speed Pump Grundfos UPS 25/55 Low Energy;

Package including warm cooling 1C separately delivered who control one dehumidifier

RDT 708 unit

TSF 24 transformer 24V

EGT 301 external probe

EGT 354 flow sensor

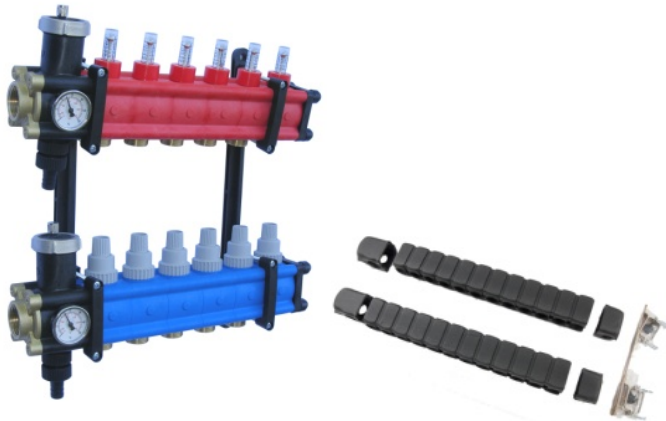
EGH 130 probe humidity 7 temperature



CIM

steel sheet cabinet for manifold with mobile guides . Adjustable in depth from 110 to 150 mm. Lock with screwdriver. Suitable for the containment of manifolds in the range. Available in widths of 40, 50, 60, 70, 85, 100, 120, 130

SYSTEM N° 2
RESIDENTIAL KNUCKLED WC 17
ELEMENTS DESCRIPTION (*warm cooling*)



POLISWELL

modular manifold 1" ¼ in polyamide reinforced with glass fiber, thermostatic valve on the return, with flow rate, with n. 2 thermometers, n. automatic 2 automatic airvent, n. 2 exhaust terminals, and n. 2 brackets.



APX

fittings for connection of polyethylene pipes (PE Xa or PE RT) to the manifolds of the range swell system



RM

fittings for connection of multilayer pipes (MRN) to the manifolds of the range swell system



TEP

actuator for electrical control of the manifold, 230 V, normally closed 2 or 4 wire, (with a limit switch for an additional electrical equipment like a boiler, a pump, or other.

SYSTEM N° 2
RESIDENTIAL KNUCKLED WC 17
ELEMENTS DESCRIPTION (*warm cooling*)



TE 411

electronic room thermostat WC white with: big display graphic icons matched to the front buttons for choice of mode operation. Choice Celsius or Fahrenheit. Powered by 2 AA 1.5 V alkaline. Battery life more than 4 years, an indication of insufficient charging of batteries. Max temp 45°C Dimensions 135 x 83 x 21



CP 18

curve support at 90° in polyamide reinforced with glass fiber. No scratch pipe



CF 17

clip for pipe in nylon reinforced with glass fiber at 50%, for fixing pipe to the slab in case of damaged knuckles



REZ 7/7/2

galvanized ribbed mesh. Decreases formation of cracks caused by temp differences and prevent the creation of projections in the floors. Measures mm. 2000 x 1000 mesh 70 x 70 x 2. Pack n. 20 sheets (m² 40). Wire is knurled for better gripping on the concrete slab



GDH 11

expansion joint in flexible foam of red polyethylene, with adhesive, length mm 2000, height mm. 116, thickness mm. 7, Required for areas larger than 40 m²

SYSTEM N° 2
RESIDENTIAL KNUCKLED WC 17
ELEMENTS DESCRIPTION (*warm cooling*)



GC 19

corrugated sheath precutted in black polypropylene copolymer, provided with corrugation perpendicular to the longitudinal axis; good flexibility even at low temperatures. Pre cutted in the longitudinal direction to allow the application on the pipe when is yet installed



LA 45

Liquid additive for concrete slab. Designed to reduce the mixing water, improves the fluidity of the concrete, promotes good workability without delaying the development of mechanical strengths. Recommended dosage: 1% by weight of cement powder



SWC 30

protective liquid for underfloor radiant system. Balanced composition of corrosion inhibitors with anti scaling action, also generates a healing effect against lime deposits or biotic, and also to corrosion residues may be present in the plant. Also generate algostatic effect. Compatible with all metals and plastic elastomers. Biodegradable. Dosage 1 kg every 200 litres of water in the system.