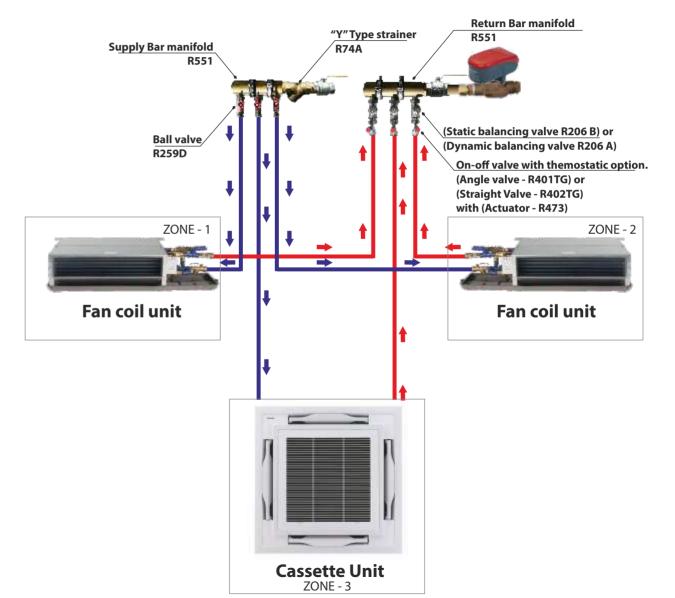




FCU STATION





FCU STATION

WHAT IS FCU STATION?

Fan Coil Unit (FCU) station is Pre assemble station ,with which we can install FCU in a much faster way. In a current scenario with relevant to connection of FCU with MS pipe header more number of joints are required i.e Elbow ,coupler etc. Mobilisation of Welding Equipment with skilled labour is major cost.

ADVANTAGES:

- Seamless Piping system
- Low pressure drop
- Low maintenance
- Easy installation
- Pressure test upto 16 bar
- Precisely adjustment of the flow
- Anti-corrosion pipe & fittings
- Leakproof
- Compact Design

- Single point & control with Giacomini manifolds
- Control FCU water flow individually
- No separate Strainer required for each FCU
- FCU isolation can be done from remote area
- Installation of Giacomini pipes & fittings are safe & secure as no welding or brazing is required
- The system can be modulated from 0.75TR to 5TR
- Flexibility of 500 mm to 2000 mm length pipe with ready connection fittings

FCU STATION COMPONENTS

Giacoqest pipe in cross linked ployethylene



PE-X/Al/PE-X multilayer pipe



R999Y142	20x2
R999Y143	20x2
R999Y173	26x3
R999Y183	32x3

Distribution Manifold



ITEM CODE	SIZE
R551Y162	2" X 1"/2
R551Y163	2" X 1"/3
R551Y164	2" X 1"/4
R551Y165	2" X 1"/5
R551Y166	2" X 1"/6
* also available in 1	1/2"X 1/2"

Y filter



ITEM CODE	SIZE
R74AY004	3/4"
R74AY005	1"
R74AY006	11/4"
R74AY007	11/2"
R74AY008	2"
R74AY009	21/2"
R74AY010	3"
R74AY011	4"

Multilayer pipe PE-X/Al/PE-X



Standard port ball valve with tail piece



Plug for manifolds, self-sealing



ITEM CODE	SIZE
R592DY004	3/4"
R592DY005	1"
R592DY006	1"1/4
R592DX007	1"1/2

Kit multifunction valves



ITEM CODE	SIZE
R269TY035	1"
R269TY036	1 1/4"

Isolation cover manifold R551 (1"1/2 - 2")



ITEM CODE	SIZE
R551WY005	for 3/4" R551 Distance 50mm
R551WY006	3/8"x18
R551WY007	1/2"x16
R551WY008	1/2"x18
R551WY009	1/2"x3/4"Eurocone

Reducer self-sealing.



ITEM CODE	SIZE
R593DY001	3/4"M x 3/8"F
R593DY002	3/4"M x 1/2"F
R593DY003	1"M x 3/8"F
R593DY004	1"M x 1/2"F
R593DY005	1"M x 3/4"F
R593DY006	1 1/4"M x 1/2"F
R593DY007	1 1/4"M x 3/4"F
R593DY008	1 1/4"M x 1"F

Drain cock male connection



ITEM CODE	SIZE
R608Y014	3/4"
R608Y022	3/8"
R608Y023	1/2"
R608Y024	3/4"
R608Y033	1/2"
R608Y034	3/4"

Automatic air vent valve



ITEM CODE	SIZE
R99Y002	3/8"
R99Y003	1/2"

Nipple, brass finish



ITEM CODE	SIZE
R189Y004	3/4"
R189Y005	1"
R189Y006	1 1/4"
R189Y007	1 1/2"

Reducer male-female thread. BRASS FINISH



SIZE
3/4"M x 1/2"F
1"M x 1/2"F
1"M x 3/4"F
1 1/2"M x 1 1/4"F
2"M x 1 1/2"F
2"M x 1 1/4"F

Thermometer



ITEM CODE	SIZE
R226Y002	1/2" 6 bar

Dynamic balancing valve, with integrated cartridge for stabilizing the flow rate



ITEM CODE	SIZE
R206AY014	3/4"
R206AY015	1"
R206AY016	11/4"
R206AY017	11/2"
R206AY018	2"
R206AY033	1/2"
R206AY034	3/4"

Electrical actuator, normally closed



ITEM CODE	SIZE
R473X121	230 V
R473X122	24 V
R473VX121	230 V-with varistor

Angle valve with thermostatic option



ITEM CODE	SIZE
 R401X034	3/4" *
R401X035	1" *

Angle lockshield valve



	ITEM CODE	SIZE
760	R14X034	3/4" *
100	R14X035	1"*
-	R14X036	1 1/4" *

Static balancing valve



ITEM CODE	SIZE
R206BY004	3/4"
R206BY005	1"
R206BY006	1 1/4"
R206BY007	1 1/2"
R206BY008	2"
R206BY014	3/4"
R206BY015	1"
R206BY016	1 1/4"
R206BY017	1 1/2"
R206BY018	2"
	R206BY004 R206BY005 R206BY006 R206BY007 R206BY008 R206BY014 R206BY015 R206BY016 R206BY017

Straight valve with thermostatic option



ITEM CODE	SIZE
R402X034	3/4" *
R402X035	1"*

Straight lockshield valve



ITEM CODE	SIZE
R15X034	3/4" *
R15X035	1"*
R15X036	1 1/4" *

Crimp Ring



ITEM CODE	SIZE
GZ61Y005	3/4"
GZ61Y006	1"

Large crimping tool



SIZE
3/4"
1"

Medium crimping tool



ITEM CODE	SIZE
GZ200Y103	1/2"
GZ200Y105	3/4"

Checking guage



SIZE
3/8"-1/2"-3/4"
1"

Ball valve with Giacogest connection



Ball valve



ITEM CODE	SIZE
GZ651Y004	3/4"
GZ651Y005	1"

3/4"

Crimp ring remover



984	ITEM CODE	SIZE
	GZ201Y001	

Straight Fitting



ITEM CODE	SIZE
GZ102Y004	3/4"x3/4"
GZ102Y005	1"x1"

Straight fitting, female thread



ITEM CODE	SIZE
GZ109Y044	3/4"x3/4"F
GZ109Y045	1"x3/4"F
GZ109Y055	1"x1"F

90° elbow, male thread



ITEM CODE	SIZE
GZ127Y044	3/4"x3/4"M
GZ127Y045	1"x3/4"M
GZ127Y055	1"x1"M

Tee fitting



ITEM CODE	SIZE
GZ150Y004	3/4"
GZ150Y005	1"

Tee fitting, male thread



The same	ITEM CODE	SIZE
The state of the s	GZ153Y034	3/4"x1/2"Mx3/4"

Straight fitting, male thread



ITEM CODE	SIZE
GZ107Y044	3/4"x3/4"M
GZ107Y054	3/4"x1"M
GZ107Y045	1"x3/4"M
GZ107Y055	1"x1"M

90° elbow



ITEM CODE	SIZE
GZ122Y004	3/4"x3/4"
GZ122Y005	1"x1"

90° elbow, female thread



ITEM CODE	SIZE
GZ129Y044	3/4"x3/4"F
GZ129Y045	1"x3/4"F
GZ129Y055	1"x1"F

Reducing tee.



ITEM CODE	SIZE
GZ151Y025	1"x3/4"x3/4"
GZ151Y017	3/4"x1"x3/4"
GZ151Y026	1"x3/4"x1"
GZ151Y027	1"x1"x3/4"

Tee fitting/female thread



ITEM CODE	SIZE
GZ154Y045	1"x3/4"Fx1"
02.13.110.13	1 73/ 1171

Pressure independent control valves (PICV)



Two way zone valve, F * F connections



Three way zone valve, M * M connections



ITEM CODE	SIZE
R278Y004	3/4"
R278Y005	1"

Full port ball valve, red lever handle, chrome plated.



ITEM CODE	SIZE
R850X023	1/2"
R850X024	3/4"
R850X025	1"
R850X026	1 1/4"
R850X027	1 1/2"
R850X028	2"
R850X009	2 1/2"
R850X010	3"
R850X031	4"

Actuator 'ON/OFF' Type



Actuator 'V' type



Electrical motor for Diverter valve

ITEM CODE	SIZE	
K270Y101	230 V	
K270Y102	24 V	
Motor for R276, R277, R278, R279 zone valve having end stroke microswitch. 90° rotation in around 40 seconds.		

M30 x 1.5 mm.

F * M Standard Port Ball Valve



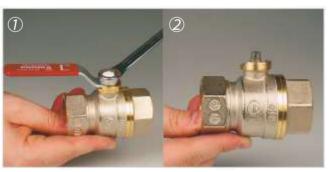
M * M Standard Port Ball Valve red or yellow lever handle, chrome plated



Full port valve with extended handle

	ITEM CODE	SIZE
	R851TX003	1/2"
	R851TX004	3/4"
	R851TX005	1"
	R851TX006	1 1/4"
	R851TX007	1 1/2"
	R851TX008	2"

Installation sequence for R749T (Extended lever)



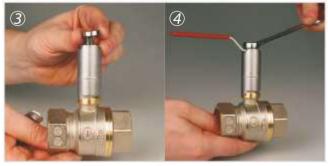
Unscrew the nut with the Remove the lever. special wrench.

F * M full port ball valve



Cylinder extension for ball valves





Position the handle raised Put back the lever and with the special wrench tightly screw the nut.

Male fitting for multilayer or synthetic pipes



Straight fitting, for multilayer pipes.

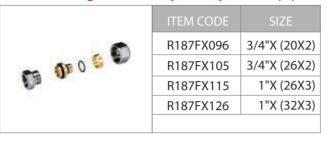


90° elbow fitting



ITEM CODE	SIZE
R561MX048	16x2
R561MX052	18x2
R561MX057	20x2
R561MX062	26x3
R561MX126	32x3

Female fitting for multilayer or synthetic pipes



Reducer Straight fitting



90° elbow mail thread fitting



1	ITEM CODE	SIZE
	R562MX048	1/2"x(16x2)
	R562MX052	1/2"x(18x2)
	R562MX057	1/2"x(20x2)
	R562MX060	3/4"x(16x2)
	R562MX061	3/4"x(20x2)
	R562MX062	3/4"x(26x3)
	R562MX120	1"x(26x3)
	R562MX126	1"x(32x3)
	R562MX052 R562MX057 R562MX060 R562MX061 R562MX062 R562MX120	1/2"x(18x2) 1/2"x(20x2) 3/4"x(16x2) 3/4"x(20x2) 3/4"x(26x3) 1"x(26x3)

90° elbow, female thread



ITEM CODE	SIZE
R563MX048	1/2"x(16x2)
R563MX052	1/2"x(18x2)
R563MX057	1/2"x(20x2)
R563MX060	3/4"x(16x2)
R563MX061	3/4"x(20x2)
R563MX062	3/4"x(26x3)
R563MX120	1"x(26x3)
R563MX126	1"x(32x3)

Threaded female elbow fitting with wall bracket



R572MX048	1/2" x (16 x 2)
R572MX057	1/2" x (20 x 2)

Tee fitting, male thread



R568MX062 (26x3)x3/4"x(26x3)	ITEM CODE	SIZE
	R568MX061	(20x2)x3/4"x(20x2)
R568MX126 (32x3)x1"x(32x3)	R568MX062	(26x3)x3/4"x(26x3)
11300111/120 (32/3)/11 /(32/3)	R568MX126	(32x3)x1"x(32x3)

Tee fitting



ITEM CODE	SIZE
R564MX057	20x2
R564MX062	26x3
R564MX126	32x3
	,

Tee fitting, for multilayer pipes.



R569MX061	(20x2)x3/4"x(20x2)
R569MX062	(26x3)x3/4"x(26x3)
R569MX120	(26x3)x1"x(26x3)
R569MX126	(32x3)x1"x(32x3)

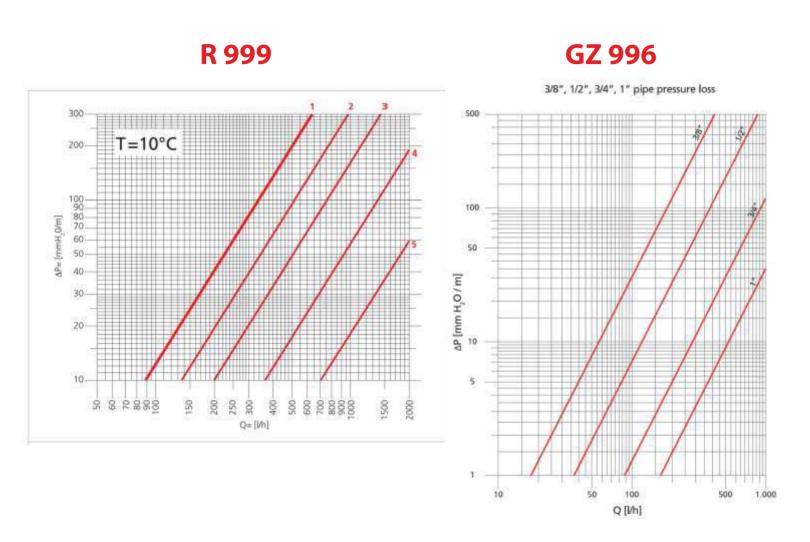
CONVERSION TABLE:

BTUH	Kcal /Hr	KW	GPM	M³/hr	Ltr / hr
12000	3000	3.517	2.67	0.606	605.67
18000	4500	5.2755	4.00	0.908	908.50
24000	6000	7.034	5.33	1.211	1211.33
30000	7500	8.7925	6.67	1.514	1514.17
36000	9000	10.551	8.00	1.817	1817.00
42000	10500	12.3095	9.33	2.120	2119.83
48000	12000	14.068	10.67	2.423	2422.66
54000	13500	15.8265	12.00	2.725	2725.50
60000	15000	17.585	13.33	3.028	3028.33
	12000 18000 24000 30000 36000 42000 48000 54000	12000 3000 18000 4500 24000 6000 30000 7500 36000 9000 42000 10500 48000 12000 54000 13500	12000 3000 3.517 18000 4500 5.2755 24000 6000 7.034 30000 7500 8.7925 36000 9000 10.551 42000 10500 12.3095 48000 12000 14.068 54000 13500 15.8265	12000 3000 3.517 2.67 18000 4500 5.2755 4.00 24000 6000 7.034 5.33 30000 7500 8.7925 6.67 36000 9000 10.551 8.00 42000 10500 12.3095 9.33 48000 12000 14.068 10.67 54000 13500 15.8265 12.00	12000 3000 3.517 2.67 0.606 18000 4500 5.2755 4.00 0.908 24000 6000 7.034 5.33 1.211 30000 7500 8.7925 6.67 1.514 36000 9000 10.551 8.00 1.817 42000 10500 12.3095 9.33 2.120 48000 12000 14.068 10.67 2.423 54000 13500 15.8265 12.00 2.725

11

PRESSURE DROP CHART

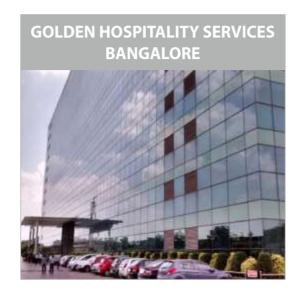
FCU SYSTEM SOLUTION



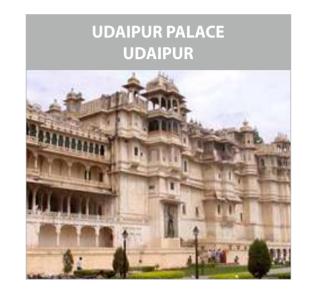
SN.	Description	Conventional MS Pipes	PEX Pipes System
1	Material Used	MS Pipes	PEX pipe
2	Outer Dia of Pipe	34 mm	28.58 mm
3	Inner Dia of Pipe	25 mm	22.22 mm
4	Standard Use	IS 1239	ASTM F876 and EN ISO 15875
5	Pressure drop	1.2 Mpa	0.000506 Mpa
6	Routing of pipes	Elbows & bend required for routing	Flexible enough to bend without any joint
7	Seamless	More number of joints	Jointless System
8	Welding	Required	Not required
9	Copper Soldering	Required	Not required
10	Elbow	Required	Not required
11	Corrosion	MS pipes will be corroded	Not possible
12	Chemical Flushing	Required	Not required
13	Chemical Dosing	Required	Not required
14	Pressure testing	12 bar	12 bar
15	Installation	Heavy weight	Low weight
16	Installation time	Time require is more	Time require is less.
17	Insulation installation	Pipe Insulation done after installation	Pipe Insulation can be done simultaneously with installation
18	Maintenance	Higher maintainence due to more	No maintainence due to Jointless
		number of joints	system
19	Accessiblity	Individual	Centralise / Individual
20	Modification of FCU location	Not Possible	Possible
21	Dismantling Time	High	Low
22	Scaling	Present	Absent
23	Life Period of pipe	Approx 10 years	50 years
24	Equipment Life	Life of equipment degraded due to scaling	Life of equipment enhanced due to non scaling
		Jeaning	Jeaning

OUR PRESTIGIOUS PROJECTS

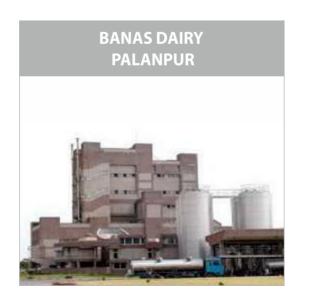
















We cultivate our future to strengthen yours.

In the future that awaits us, buildings will be less of a "roof over our heads", and more places that are vital to our health, our personal and professional relationships, our well-being and the one of our planet.

As such, they will become more than just buildings - they will increasingly become environments in which light, temperature and water will be used with greater intelligence and a increased sense of responsibility.

In such a scenario, our mission is to become a Leading company in the production of components and systems that use water to produce comfort, to manage its usage "in situ" and to extinguish fire. All of this with a strong green attitude.

Our products give Life to water, in order to provide useful services and well-being to people. For this reason, our motto is: "WATER E-MOTION". At home, in the office, at work and wherever water flows, is heated or is cooled - there is a Giacomini product