



TEKSOL  
GROUP

# Line Card



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# About us



We are a company with great experience and knowledge in HVAC, refrigeration and air quality in Latin America.

With extensive experience in the commercial and industrial sector, offering clean, innovative and efficient solutions.

We have coverage throughout LATAM with offices in:



United States (Miami)  
Mexico  
Colombia  
Dominican Republic  
China  
Peru



# Our team - Experience and strengths

TEKSOL is a company with specialized professionals in Sales, Service, and Engineering, boasting over sixty years of combined experience. We operate in Latin America, Caribbean, USA, and China, serving various sectors, including industry, hospitals, pharmaceuticals, commercial buildings, mining, and petrochemicals. Our key stakeholders excel in business development, engineering, service, and logistics, with our active consultant having founded the Latin America consultant and designers association and been part of the Daikin Group.



## Technical Divisions

-  Insulation
-  Heating
-  Air Conditioning
-  Industry
-  Pre Insulated Pipes
-  Pipes
-  IAQ / Air Quality
-  Refrigeration



# Recognized brands we represent





Centrifugal Pumps, Pressure Booster Systems, Variable-Speed Pumping Systems, Shell & Tube and Plate Heat Exchangers, Submersible Pumps, Sewage Pump Stations, Hydronic Specialties, Expansion tanks, I-work controls, Chill beam controls.



Cooling Towers, Closed-circuit Fluid Coolers, Evaporative Condensers and Ice Storage System.



# HVAC Special Products



Leader in dehumidification...worldwide, it's a global solution provider for dehumidifiers, gas phase filtration, plastics drying and conveying, dry room, high temperature waste heat recovery and energy-smart cooling using waste heat.

## applications

### STORAGE

- Electrode
- Film and Magnetic Media
- Military Hardware
- Metal Components
- Seeds
- Sugar
- Tea/Coffee
- Turbine

### PACKAGING

- Chemicals and Fertilizers
- Dairy Products
- Leather
- Spices
- Tea/Coffee and many more...

### PROCESSING AND PRODUCTION AREAS

- Breweries
- Blasting and Painting
- Candy and Confectioneries
- CT Scan/MRI/OT Rooms
- Electronics
- Food Processing
- Investment Casting
- Laboratories
- Lithium Batteries
- Pharmaceuticals
- \* • Safety Glass
- Spray Drying

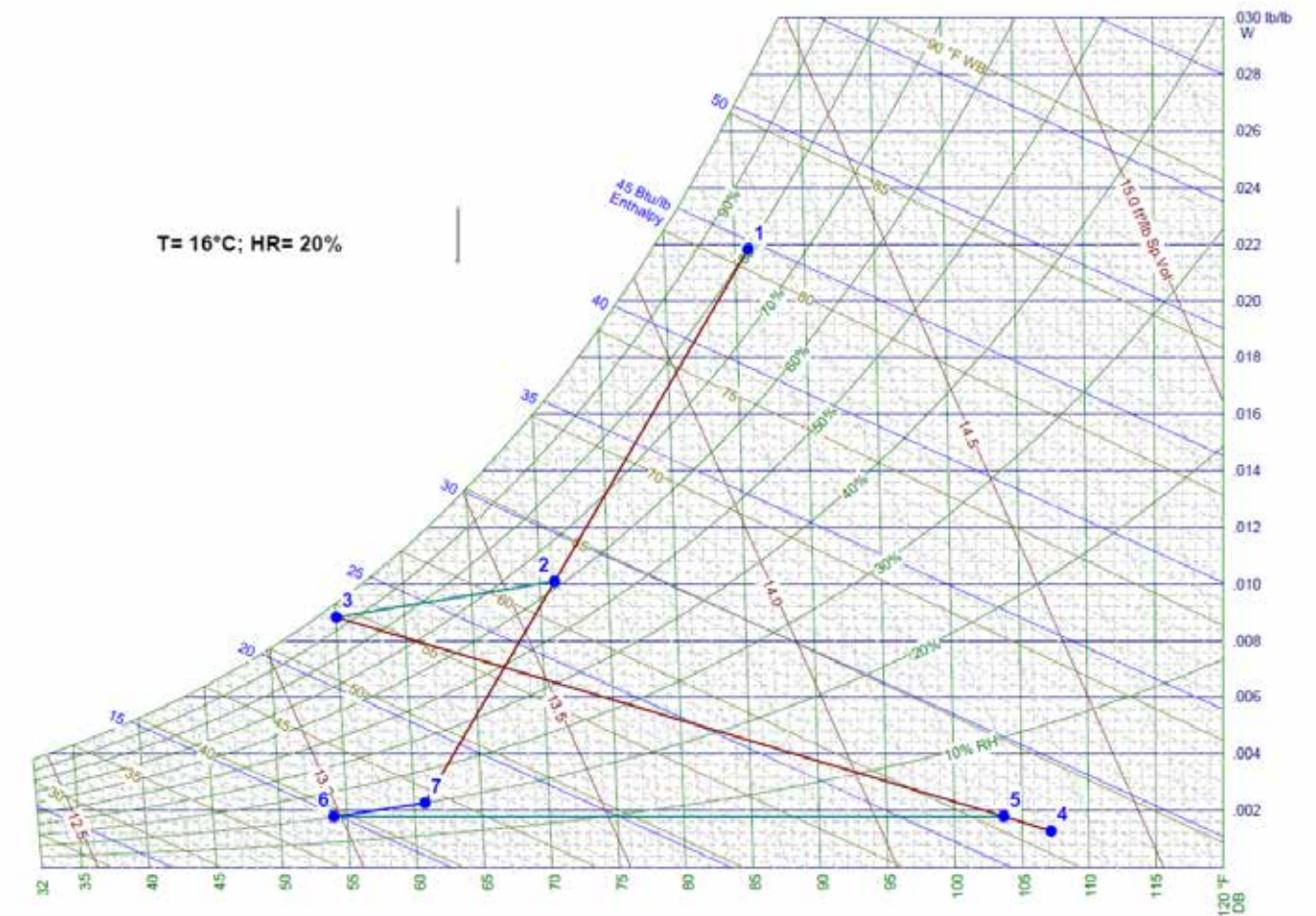
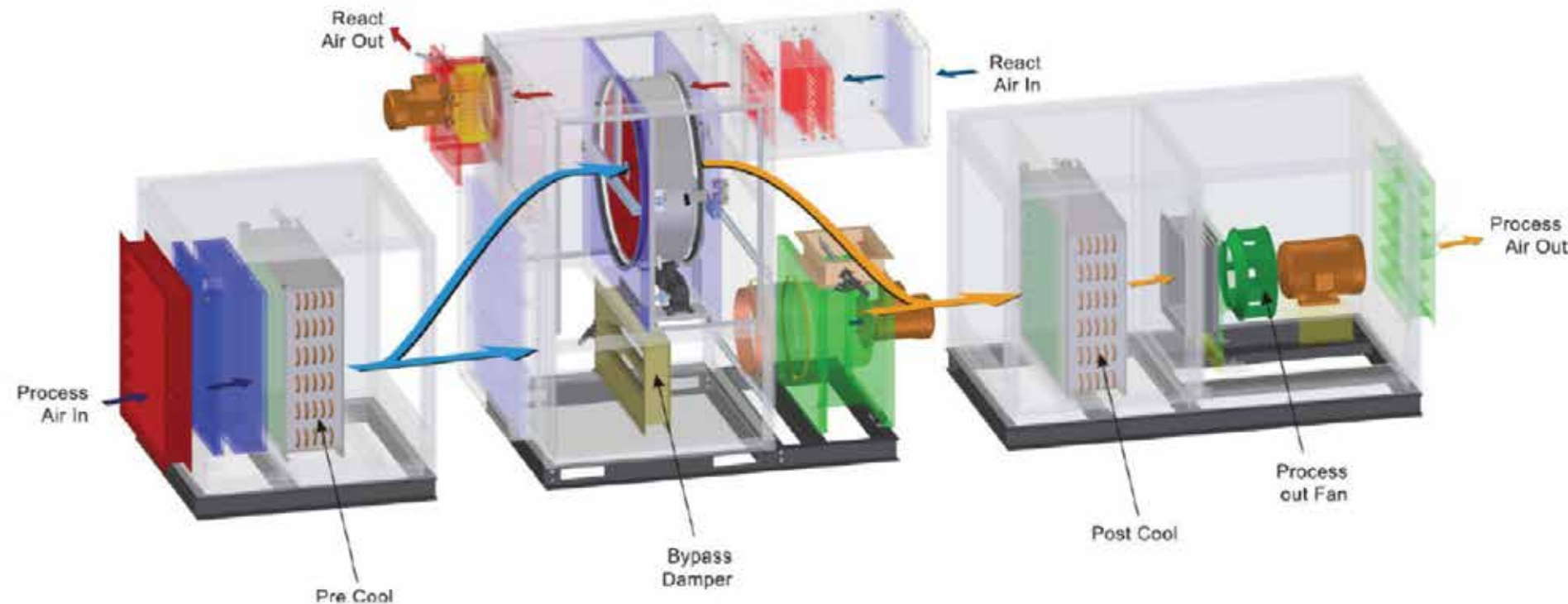
Desiccant Dryers, for humidity control and low relative humidity applications.



# HVAC Special Products

## Dessicant Drying

We can handle and support your team with calculations, psychrometrics, system flow diagrams and unit selection for your needs; giving you an accurate solution.





# Ventilation

INFINAIR is an innovative company which provides environmental and intelligent solutions for all aspects of ventilation systems in both private and public sector. They have been INFINAIR's core values and commitments to our customers over the years



Rooftop Centrifugal Exhaust  
Fan - RTC



Inline Square Centrifugal  
Fan - ISQ



Centrifugal Utility Set -  
CUS



# Holtop

Bring Forest-Fresh Air to Your Life! Comprehensive solutions of heat and energy recovery ventilators, air-to-air heat exchangers, and air handling units for your comfortable healthy breathing.



Holtop Comfort Fresh Air Ceiling  
Mounted Energy Recovery  
Ventilator



DOAS FOR HIGH-  
PERFORMANCE BUILDING  
APPLICATIONS





# Air Conditioning Equipment for Applied Purpose

Water Chilling Units (Chillers) with Screw and Centrifugal Compressors, modular chillers, air handling units, and fan coil units for chilled water

Water-cooled Flooded Screw Chiller



COOLING: 110Ton~933"

Air-cooled Screw Chiller



COOLING: 110Ton~420Ton

**TICA MODULAR AIR HANDLING UNIT**  
TAC/TBC Series



**TCA-XH Modular Chiller**  
[Cooling only optional] Max16 units  
Cooling capacity: 66– 2272 kW  
Heating capacity: 66– 2272 kW  
Scroll compressor, R410a



Centrifugal Chiller

**SMARDT**



**TCAV Full Operation Condition**  
Variable Speed Scroll  
Cooling capacity: 33.5– 1040 kW  
Scroll compressor, R410a  
T3T4 Special -20~55℃



# Boilers / Heaters

Medium to High-Efficiency Units with Heat Recovery, Cascade Operation, and Remote Monitoring. Buffer and Water Storage Tanks

Electric Boiler/Water Heater



FTXL Fire Tube Boiler



Knight XL



Crest Condensing Boiler



Armor X2 Condensing Water Heater



Noble Fire Tube Combi Boiler



PowerFin Boiler/Water Heater



Shield Commercial Water Heaters



Lock-Temp Storage Tanks



Copper-Fin II Boiler/Water Heater



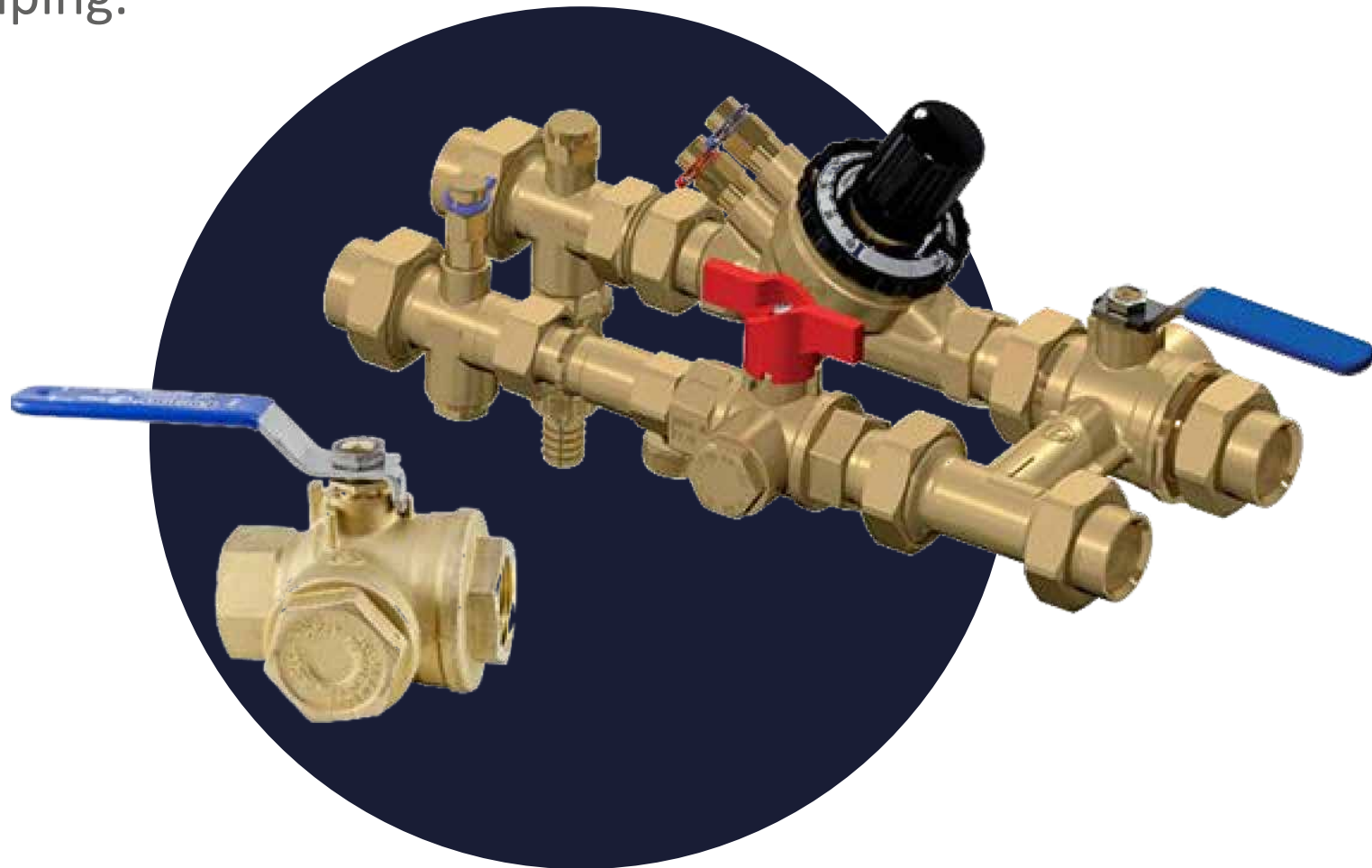
Gas (LPG or Natural Gas) and Electric Water Heaters



# Solutions for industry



Devices for the optimization of air conditioning, heating and refrigeration to increase the energy efficiency of the system as well as a complete range of couplings, unions and connections to suit any piping.

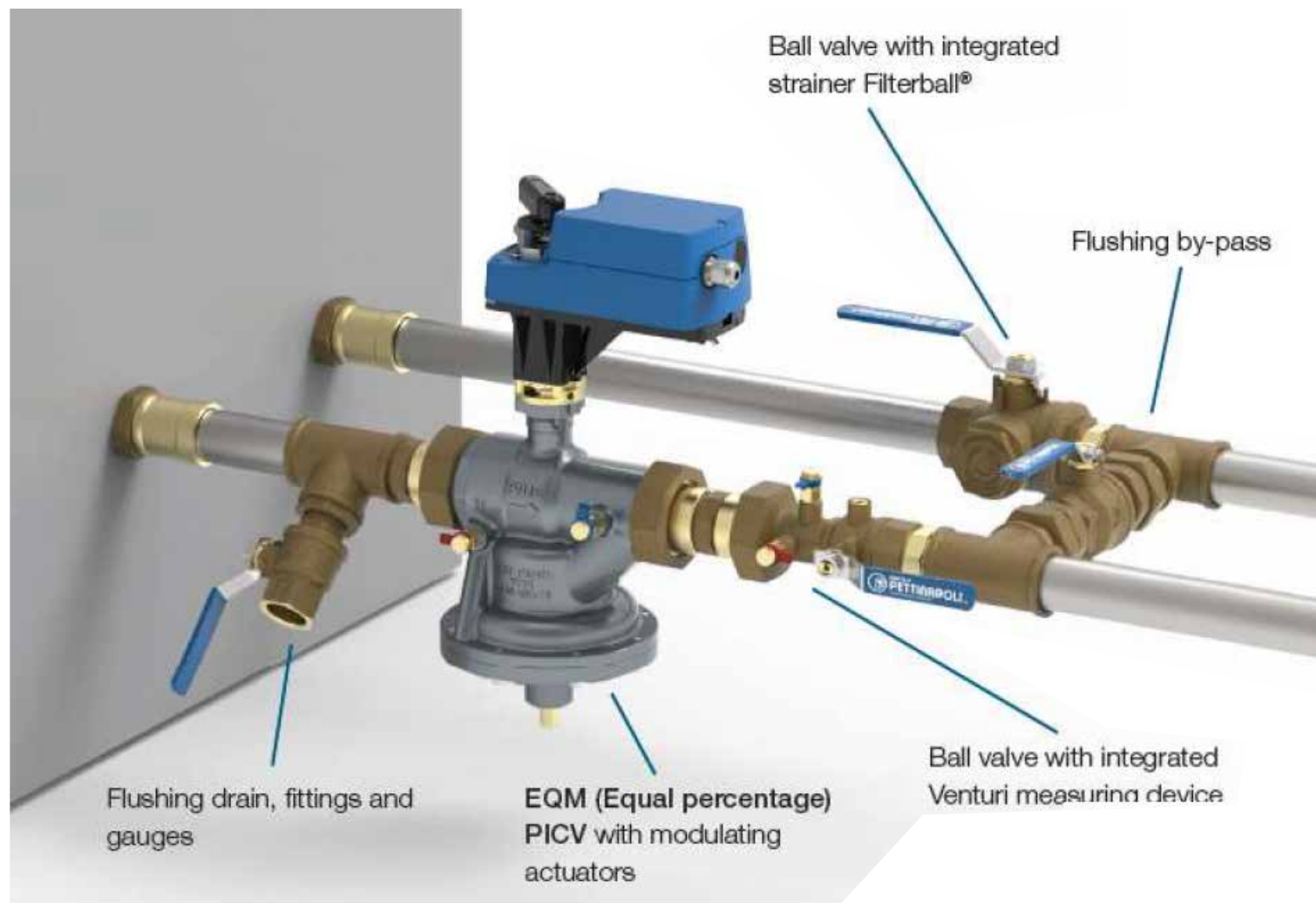


The most extensive range of products in the industry for airborne noise control, structure-borne vibration, room acoustic quality improvement, quiet room construction, acoustic booths, and much more.

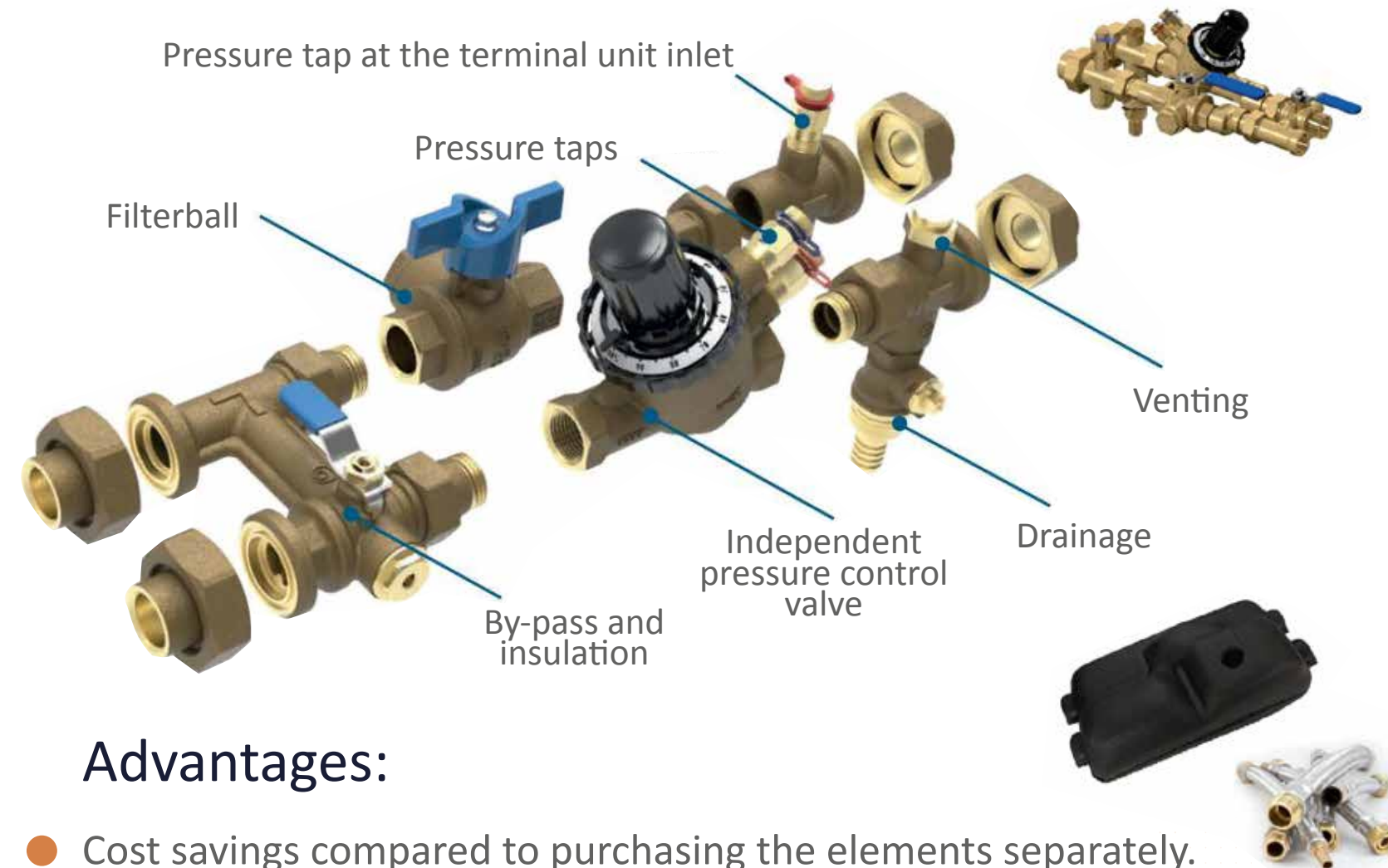


# Hydronic Systems Products

## Water Flow Control Valves and Hydronic Kits



Control and service valves, hydronic kits for pressure independent control valves (PICV)



### Advantages:

- Cost savings compared to purchasing the elements separately.
- Time savings for on-site assembly of the valve train.
- Time savings for on-site insulation of all elements.
- Hydronic kits fully tested 100% with Pettinaroli guarantee.
- No more errors and delays on site.
- Single supplier and single code without the need for product stock.



# Airflow Control



Control dampers, fire dampers, smoke and fire dampers, circular dampers, barometric dampers, balancing dampers, gravity dampers with and without electric or mechanical actuators. Industrial dampers for various applications. Louvers for air intake or exhaust. AMCA and UL certifications.





Clean indoor air without producing harmful levels of ozone or other by-products. All needle point bipolar ionization (NPBI) products are UL2998 certified and CE compliant. GPS products improve the air by reducing airborne particles, including certain odors, viruses and bacteria.



## IDF-2™



The IDF-2 is a low-profile, quiet operation ceiling tile fan with NPBI™ technology directly integrated. The IDF-2 is easy to install and ideally suited to spaces such as conference rooms, classrooms, healthcare waiting rooms and open plan offices.

## PF-i™



The GPS Air PF-i is a self-cleaning filter enhancement system. The Opti-Lok™ technology improves an air filters ability to capture sub-micron particles, making it more efficient. The unit is designed for mounting inside ducts and air handling units upstream of system filtration.

## PF-e™



The GPS Air PF-e is an indoor duct mounting filter enhancement system. The Opti-Lok™ technology improves an air filters ability to capture sub-micron particles, making it more efficient.





# Special applications



# HVAC Special Products



Absorption chillers with multiple energy sources (natural and LPG gas, diesel, hot-water, steam, waste heat). Sea water Desalination, Air cooled condensers.

## Air Cooled Condensers



Steam Fired Lithium Bromide Absorption Chiller



Direct Fired Lithium Bromide Absorption Chiller



Hot Water Fired Lithium Bromide Absorption Chiller



Flue Gas Fired Lithium Bromide Absorption Chiller



# HVAC Special Products

## Frequency Inverters



With leading application know-how, and sustainable innovation, we set out to become our customers' preferred decarbonization partner, with a focus on long-term value creation for our customers and employees



# HVAC Special Products

## Enclosures Air Conditioners



Unique air conditioners for electrical enclosures cooling; to be attached to electrical boards, panels for immediate cooling, directly to the heat dissipation equipment. Engineered and manufactured to endure the most difficult of environments and applications. • Thermal Edge air conditioners will exceed environmental requirements in applications like Steel, Food Processing, Petro-Chemical, Cement, Paper and Pulp and Plastics. All products are available in UL types 12, 4 and 4X. Hazardous locations options are available.



Efficient and economical cooling  
from 1,000 to 20,000 BTUH



# HVAC Special Products

## UL Listed Enclosure Air Conditioners

### CS SERIES AIR CONDITIONERS

- Industry leading 5-Year Workmanship Warranty
- Smallest 2000 BTUH available
- Active Condensate Evaporation is standard
- Fits on a 7" or 10" deep enclosure
- Available in UL Types 12, 4, 4X
- Fully programmable digital controller with temperature and pressure monitors for a smarter air conditioner
- 115V, 230V, 48VDC in 1000 BTUH



• 1000 BTUH  
• 2000 BTUH

### NE SERIES AIR CONDITIONERS

- Industry leading 5-Year Workmanship Warranty
- Active Condensate Evaporation is standard
- Fits on a 12" deep enclosure
- Available in UL Types 12, 4, 4X and Hazardous Environment applications
- Fully programmable digital controller with temperature and pressure monitors for a smarter air conditioner
- 115V, 230V, 460V, 48VDC in 4000 BTUH



• 1000 BTUH • 4000 BTUH  
• 1500 BTUH • 5000 BTUH  
• 2000 BTUH • 6000 BTUH  
• 3000 BTUH • 8000 BTUH

### TM SERIES AIR CONDITIONERS

- Industry leading 5-Year Workmanship Warranty
- Top Mounted Enclosure Air Conditioners
- Active Condensate Evaporation is standard
- Available in UL Types 12, 4, 4X
- Fully programmable digital controller with temperature and pressure monitors for a smarter air conditioner
- 115V, 230V, 460V



• 6000 BTUH  
• 8000 BTUH

### HC SERIES AIR CONDITIONERS

- Industry leading 5-Year Workmanship Warranty
- Active Condensate Evaporation is standard
- Available in UL Types 12, 4, 4X and Hazardous Environment applications
- Fully programmable digital controller with temperature and pressure monitors for a smarter air conditioner
- 115V, 230V, 460V



• 10,000 BTUH  
• 12,000 BTUH  
• 15,000 BTUH  
• 20,000 BTUH



# Precision Air conditioning

Precision air conditioning units, for floor or wall mounting, for Data Centers and Telecommunication rooms.

## Features:

High energy efficiency and reliability in critical environments.

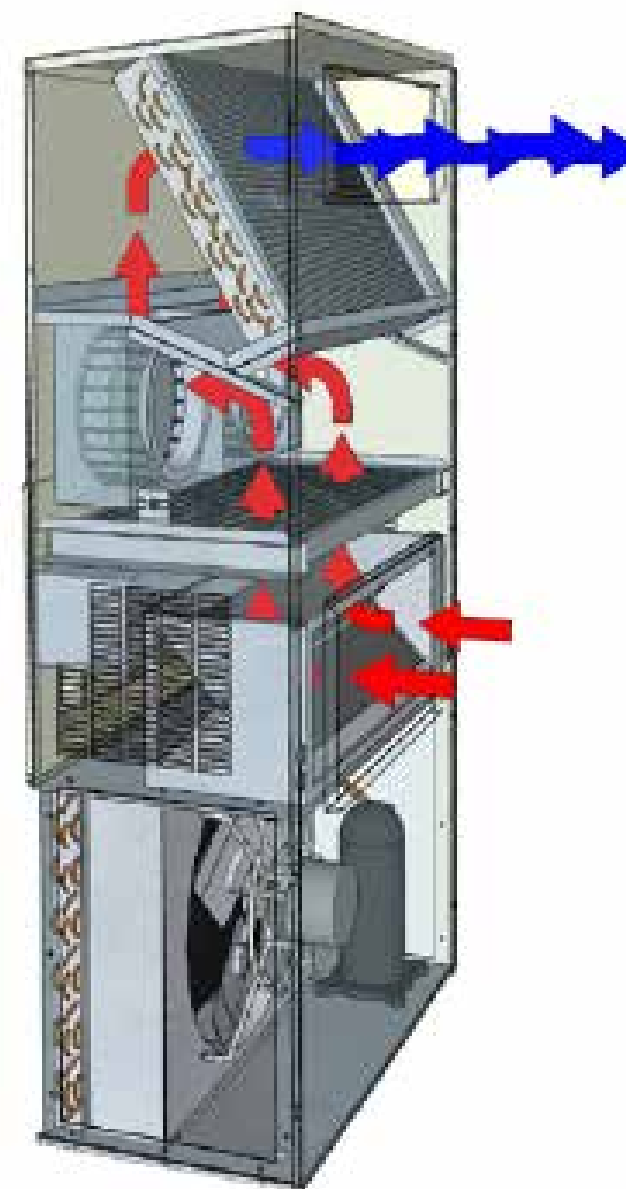
Free cooling functionality, utilizing low temperature air from the outdoor environment.

Energy savings and offering optimal value for critical environments.

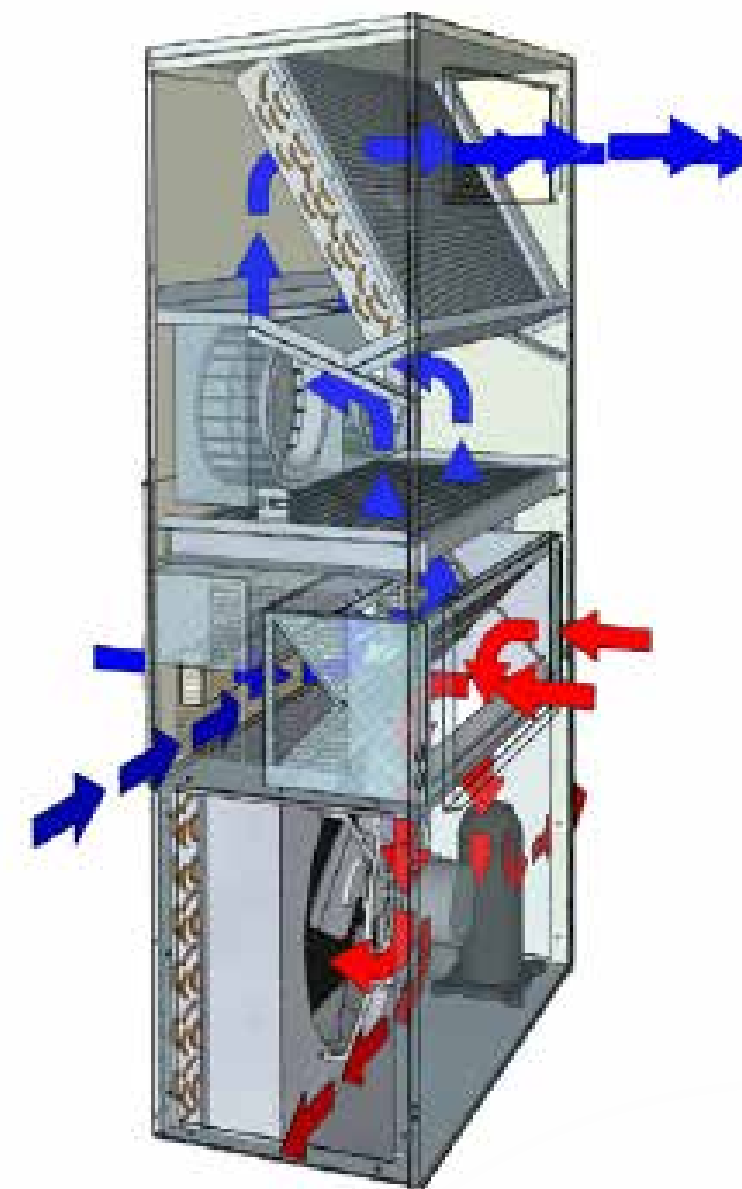


## Wall Mount Air conditioning

Backpack-type air conditioning units for conditioning electrical rooms and control rooms in the industry, as well as for telecommunication stations. Equipment ranging from 1.5 to 30 tons for direct wall mounting on the exterior of the conditioned environment.



100% Mechanical Cooling



100% Economizer Cooling



# HVAC Special Applications



Dust collection equipment (particulate matter) for medium and light industrial applications.





# HVAC Special Applications

## Dust Collection System | Regular Dust Collector

VJ-H Series



VJF Series



VJCF Series



VJFB Series



VJFX Series





# HVAC Special Applications

## Dust Collection System | Regular Dust Collector



### VJFCB Series

Vertical Type



Horizontal Type



### VJFGB Series

Vertical Type



Horizontal Type





# HVAC Special Applications

Dust Collection System | Centralized Dust Collection System



VFO Series



VH-Z Series





# HVAC Special Applications

Dust Collection System | Fume Extractors



VH Series



VHT Series



VHX Series



VH-T Series





## HVAC Special Products



PERT – AL – PERT pipes for refrigeration systems, with mechanical connections (no welding). Extremely convenient for time reduction and no copper dependence.

### Multilayer Composite Pipe Construction:

Inner layer of Natural PE-RT (polyethylene of raised temperature)

Natural PE-RT material has excellent chemical resistance

+ Adhesive Layer

+ Aluminum layer

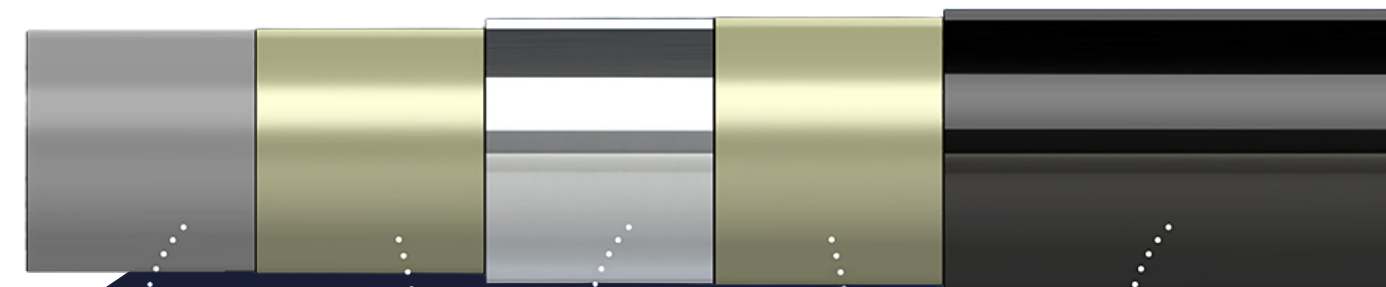
+ Roll formed and butt-welded AL alloy

+ Adhesive Layer

+ Outer layer of PE-RT (polyethylene of raised temperature)

Contains carbon black yielding excellent UV resistance

Pricing is competitive and more stable than copper line set  
pipe pricing Good flexibility that is less likely to kink with  
reduced stress hardening Lighter weight than copper pipe  
Chemical and UV resistant Less likely to be stolen on job sites  
Compression crimp fittings can be applied in the field  
without the use of special press tools



INNER PERT

ALUMINUM

OUTER PERT

ADHESIVE

ADHESIVE





## HVAC Special Products



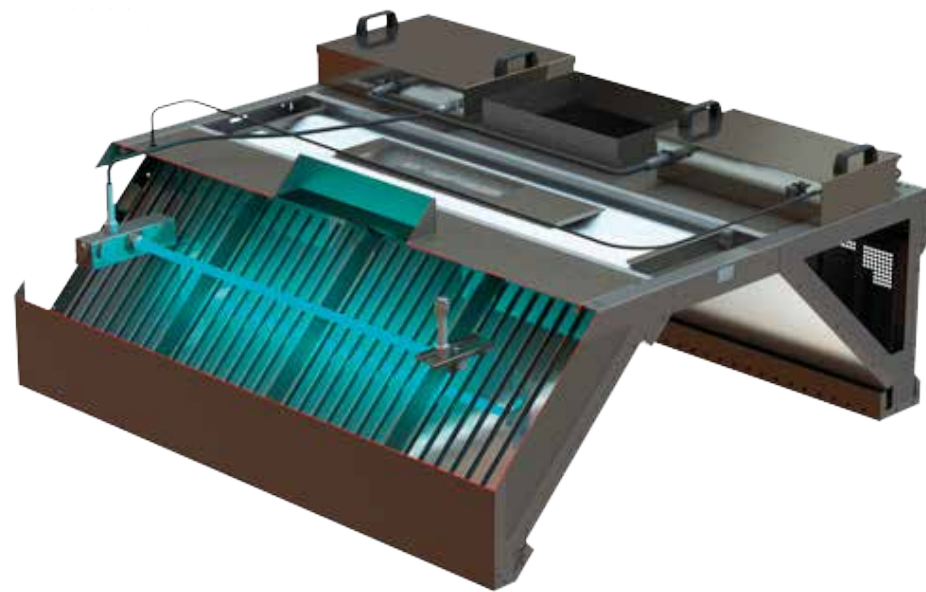
Available pipe sizes: ¼", 3/8", ½", 5/8", ¾", 7/8"  
Maximum Design Pressure:  
700psi for ¼", 3/8", ½", 5/8", ¾" sizes  
650psi for 7/8" sizes  
Maximum Design Temperature: 203°F  
Approved Refrigerants: R410a, R32, R454b

Pipe and compression fitting system designed for both  
Split System and Minisplit System applications  
Insulated and non insulated pipe product  
Coil lengths: 50' and 300'  
Product Tested and Listed to ASTM F3506-21 standard  
specification





Oil, Odour and Grease Removal



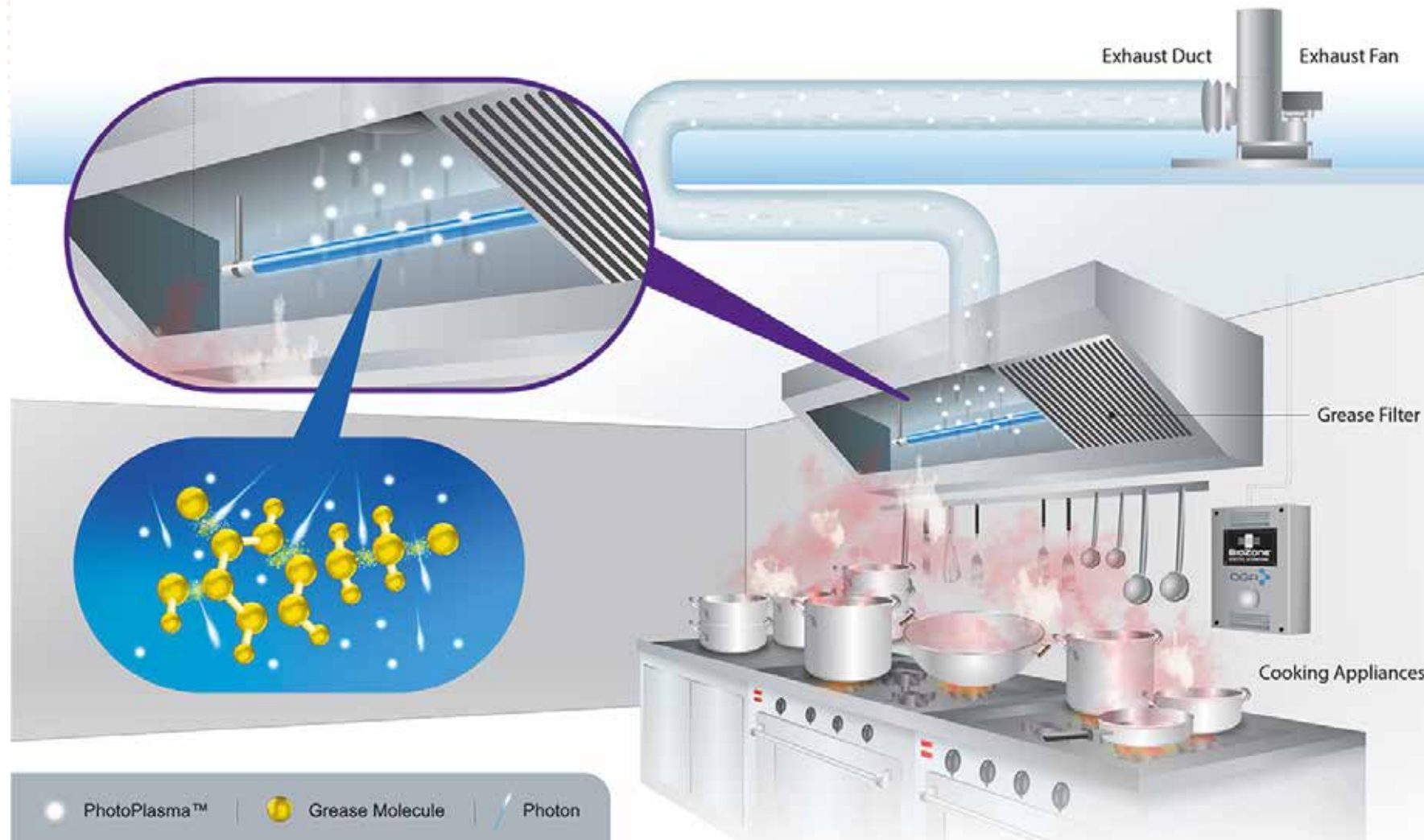
BSG OGR is an automated, chemical-free treatment system that reduces the accumulation of grease, oil, and unwanted food odours from commercial and industrial kitchens.

- ➔ Reduces the risk of dangerous fire hazards
- ➔ Eliminates odours & cooking emissions
- ➔ Compatible with every kitchen hood & duct

# SUPER COMPACT & INCREDIBLY POWERFUL

Automated and Chemical-free  
Kitchen Hood and Duct Cleaning  
Solution





## Benefits of BSG OGR:

- + Automates cleaning
- + Removes fire hazards due to grease and oil buildup
- + Removes odour from exhaust air
- + Chemical-free cleaning solution
- + Works with every kitchen hoods and ducts
- + Reduces cleaning time



## A powerful technology ingredient

- + The latest technology saves your customers' maintenance costs and reduces the time they will spend on manual cleaning
- + BSG OGR reduces the risk of dangerous fire hazards, kitchen odours, and cooking emissions
- + New construction and upgrades to existing cooking facilities can benefit from including BSG OGR
- + The BSG OGR solution amplifies the working efficiency and lifetime of any hood and ventilation system, and is the perfect complementary technology to kitchen hood baffles





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OEM

Equipments and materials

ThermoZmart

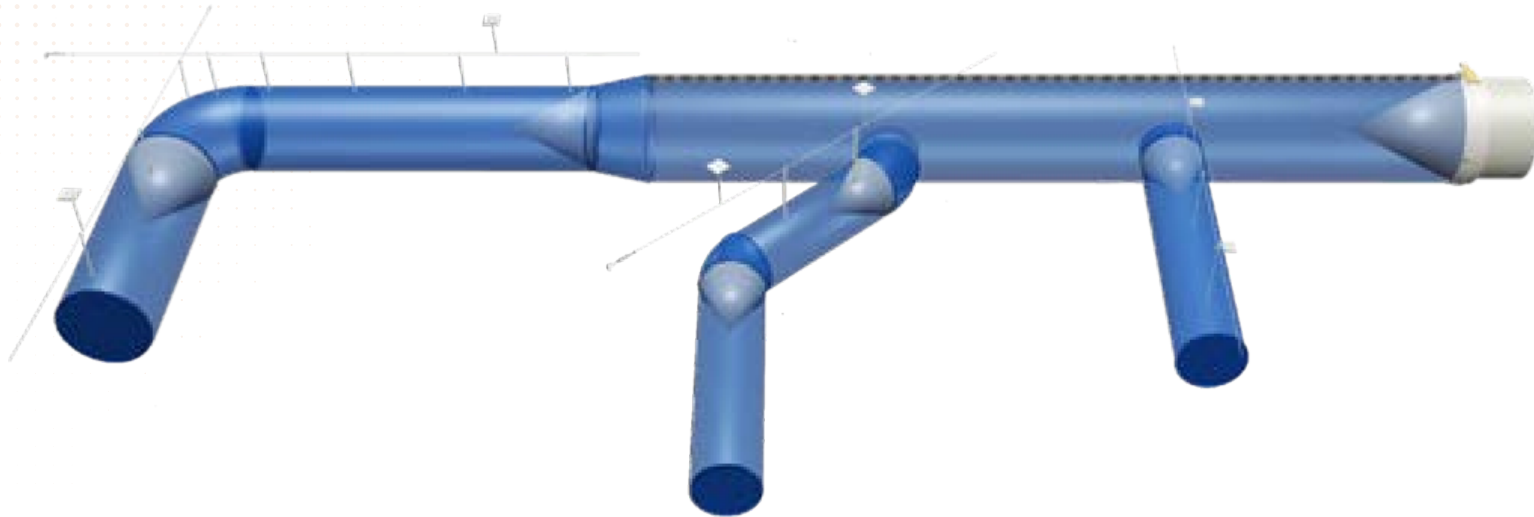
# ThermoZmart

Through our own brand "ThermoZmart" we are manufacturing products and solutions where quality, sales, service and engineering come together at a very competitive price across our regions and markets.

- + Cooling towers**
- + Pre-Insulated Piping**
- + Fabric ducts**
- + Ventilation units**



# Special Applications



We provide tailor-made textile duct solutions, made of synthetic fiber, adaptable to any space, application and site that requires air in comfortable environmental conditions..



Pre-insulated piping system and accessories are an efficient and effective solution for numerous applications in the industry, including chilled/cold water systems, hot water systems, district cooling/heating, industrial glycol cooling, refrigeration, VRF/VRV, etc.





# CLOSED CIRCUIT COOLING TOWERS

ThermoZmart  
Cooling Towers



## EVAPORATIVE CONDENSER THERMOZMART





Materials and equipment  
we sell



## PPR Pipes:

Hygienic, heat-resistant and long-lasting pipes. Their thermal conductivity coefficient is very low and they are good in heat preservation and energy conservation. Due to the hot melt joining technique, it is friendly to construction materials, without using cleaners or solvents common in other systems.



## PEX Pipes:

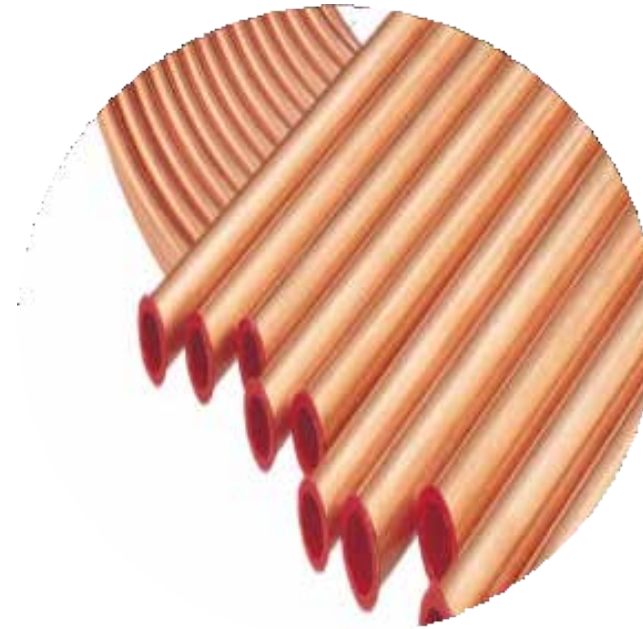
PEX products for mechanical and plumbing systems that can play an important role in the design of energy-efficient heating and cooling and in the distribution of clean water without waste.





### Flexibe Ducts

- + Adaptable to any ventilation system.
- + They are suitable for connecting supply air outlets to rigid ducts.
- + High strength, flexibility.



### Copper Pipe:

- + Recommended for conduction cooling, VRF/VRF, hot water, its main components are: Copper central/internal pipe, Schedule K, L, M, ACR in internal diameters from 1/4" to 4 1/8".



### Steel/Iron Pipe

- + Recommended for the conduction of cold and hot water.
- + C-20/40/80 steel/iron central/internal piping in internal diameters from 1/2" to 16".

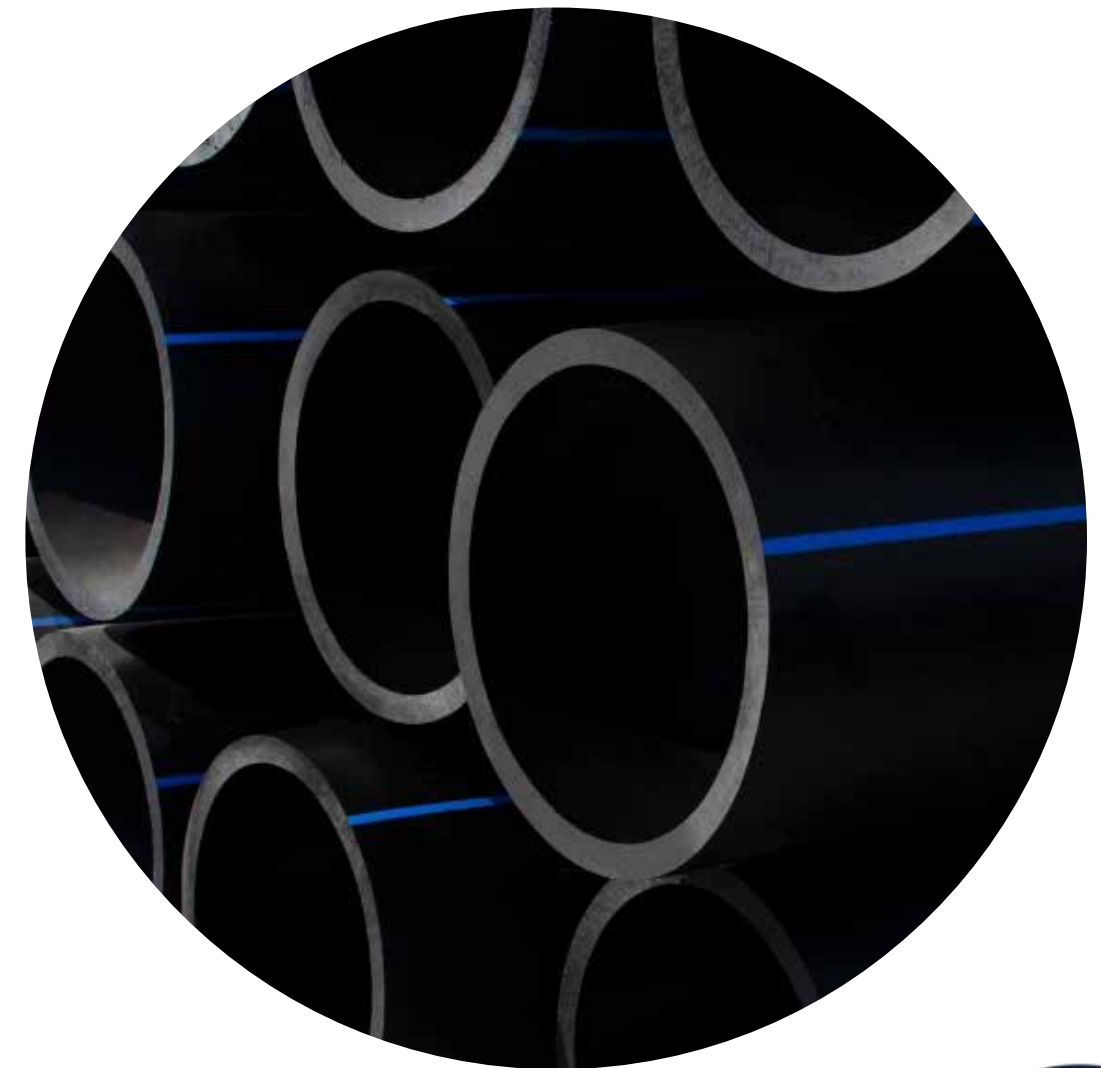


# Corrugate PE and PE pipes

Our high-performance bimodal pipe, stands out for its incredible chemical, impact, abrasion and corrosion resistance. It has a smooth inner wall and is installed by thermofusion for a 100% watertight system (can be installed in open trench or by microtunneling).

## Fire Protection: RED FIRE

- TDR PE 4710 is a high performance bimodal HDPE pipe.
- Very high chemical resistance (acids, alkalis, salts, solvents, etc).
- Resistant to abrasion and corrosion.
- Very high impact resistance.
- Its smooth inner wall avoids sedimentation, preventing the reduction of flow capacity.
- Its installation by thermofusion achieves a 100% hermetic system.
- Can be installed in open trench or by microtunneling.



PP-R 100 and Fiberglass Reinforced System

Fire Suppression Installations

New Market Segment

## RED FIRE pipe

### Specifications:

Diameter: Ø 20-125 mm (SDR11\*)

Color: Red

Raw Material: PP-R 100

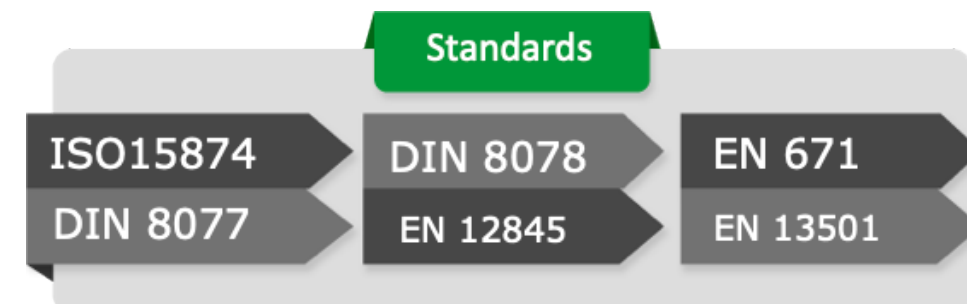
3 Layers: Flame retardant additive

Fire Reaction Class: B-s1,d0

Welding: Socket fusion

Operating Conditions: 12.5 bar | 20°C

Expected Durability: >50 years



# Fire Protection: Accessories



## Specifications:

Diameter: Ø 20-125 mm

Raw Material: PP-R and PP-R 125

With flame retardant additive

Fire Reaction Class: B-s1,d0

Welding: Socket fusion



| Standards |          |          |
|-----------|----------|----------|
| ISO15874  | DIN 8078 | EN 671   |
| DIN 8077  | EN 12845 | EN 13501 |



## Fiberglass insulation

It is the suitable solution for the external insulation of metallic air distribution duct networks, both rectangular and circular in section, in the thermal installations of air conditioning in buildings.



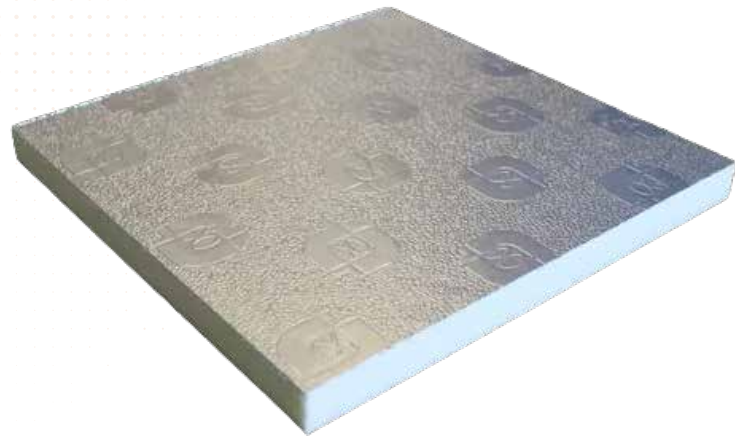
## Thermal Insulation:

Aerofoam® XLPE: cross-linked polyolefin foam suitable for thermal insulation, condensation control and mechanical protection.

Aerofoam® NBR: flexible elastomeric foam suitable for condensation control, thermal insulation and sound absorption.



# Pre-insulated panels:



Pre-insulated panel of rigid polyisocyanurate foam (PIR) coated on both sides with embossed aluminum.  
Designed for the manufacture of ducts for air distribution and ventilation systems and for air conditioning equipment.

## ADVANTAGES AND BENEFITS

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Light weight:</b> The ducts fabricated from <b>ALPHA-PIR</b> panels have a considerably lower weight when compared to the conventional sheet metal ducts.                                                                                                                                                                                                                                                               |
|   | <b>Installation speed:</b> Because of the light weight, the ducts fabricated from <b>ALPHA-PIR</b> panels can be installed faster than the conventional sheet metal ducts and therefore offer a huge saving in installation time and manpower cost.                                                                                                                                                                        |
|  | <b>Environment friendly:</b> <b>ALPHA-PIR</b> panels are CFC and HCFC free.                                                                                                                                                                                                                                                                                                                                                |
|  | <b>Moisture resistance:</b> The usage of the aluminium foil facing makes <b>ALPHA-PIR</b> panels highly resistant to moisture and eliminates the need of a vapor barrier used with the traditional fiber insulation.                                                                                                                                                                                                       |
|  | <b>Health and safety:</b> <b>ALPHA-PIR</b> panels are resistant to bacteria and microbes, fungal and mould growth, will not sustain vermin, are odorless and have a fiber free foam core.                                                                                                                                                                                                                                  |
|  | <b>Visible application:</b> <b>ALPHA-PIR</b> air duct system is aesthetically pleasing in open to view applications.                                                                                                                                                                                                                                                                                                       |
|  | <b>External application:</b> <b>ALPHA-PIR</b> air duct system can be used in external applications provided that it is protected from adverse weather conditions and sunlight.                                                                                                                                                                                                                                             |
|  | <b>Air leakage:</b> The recommended fabrication procedure allowing the combination of the suitable number of pieces in addition the possibility of fabricating duct pieces in sections up to 4 m (13') length will reduce the total number of joints in <b>ALPHA-PIR</b> air duct system compared to the conventional sheet metal duct systems. This will result in reducing the volume of air leakage in the full system. |

## RANGE AND LIMITATIONS

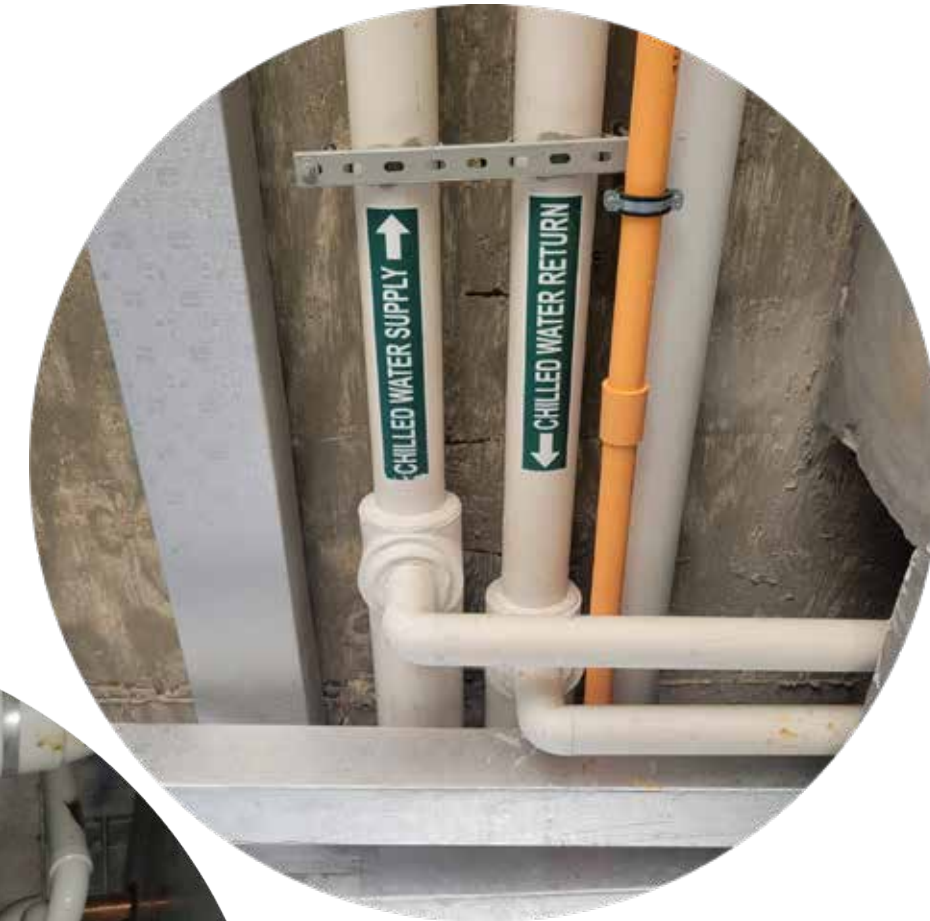
**ALPHA-PIR** air duct system is recommended to be used in the systems of supply, return, fresh air and exhaust for air conditioning, heating and ventilation within the below limits:

|                                                   |                                                                                                |                                                                                      |                                                                                                                                                                                      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum air velocity:</b><br>20 m/s (3937 fpm) | <b>Maximum pressure:</b><br>2000 Pa (8 in. w.g.) positive and<br>750 Pa (3 in. w.g.) negative. | <b>Temperature:</b><br>Air temperature between -20°C<br>and +80°C (-4°F and +176°F). | <b>Size:</b><br>Please refer to the fabrication and<br>installation procedures. Any size can be<br>fabricated after the technical consultation<br>of ALPHA DUCTS LLC technical team. |
|---------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                       |                                     |                                     |                              |
|---------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|
|  | <b>Thermal conductivity</b>         | 0.022 W/m.K (0.15 Btu.in/hr.ft².°F) | ASTM C518 at 10°C (50°F)     |
|  | <b>Water vapor transmission</b>     | ZERO g/h.m² (grain/h.ft²)           | ASTM E96                     |
|  | <b>Foam core density</b>            | 42 to 48 kg/m³ (2.62 to 3 pcf)      | BS EN 1602                   |
|  | <b>Temperature range</b>            | -20°C and +80°C (-4°F and +176°F)   | As per standard practice     |
|  | <b>Minimum compressive strength</b> | 200 kPa (29 psi)                    | BS EN 826 at 10% deformation |
|  | <b>Minimum flexural strength</b>    | 1080 kPa (156.6 psi)                | ASTM C203                    |
|  | <b>Minimum closed cell content</b>  | 90%                                 | BS EN ISO 4590               |



# Projects





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