



SUBMITTAL FOR YOGAPIPE ACR

Composite Pipe, Insulated Line Sets and Fittings

DATE:

JOB NAME:

LOCATION:

ENGINEER:

CONTRACTOR:

PIPE SIZE:

YOGAPIPE FLEXIBLE MULTI-LAYERED HVAC PIPE:

PERT-AL-PERT Type II Construction

SCOPE:

This specification covers YogaPipe Flexible Multi-Layered HVAC pipe, fittings, couplings, and pre-Insulated line sets used in air-conditioning applications such as ductless mini-split, heat-pump units, ducted units.

PERT-AL-PERT TYPE II CONSTRUCTION:

The inner and outer layers of YogaPipe PERT tubing are made from PERT (Polyethylene of Raised Temperature resistance). The mid-layer consists of aluminum which is longitudinally joined using two welding processes: an ultrasonic overlap welding technique and a laser welding technique. All the layers are extruded in one step and permanently bonded to each other with a special melt adhesive.

INSTALLATION:

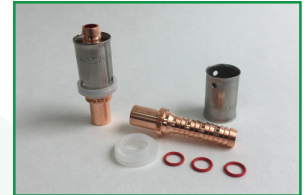
Installation shall comply with the latest installation instructions published by YogaPipe and shall conform to all applicable HVAC, plumbing, fire, and building code requirements. See installation instructions an video at www.yogapipe.com

SPECIFICATION:

YogaPipe is compliant with the International Mechanical Code, International Residential Code, Uniform Mechanical Code, California Mechanical Code, and Florida Mechanical Code. ICC approval PMG-1409 can be found at www.icc-es-pmg.org. YogaPipe is manufactured to ASTM F 3346 specifications.

FITTINGS & COUPLINGS:

Some YogaPipe fittings come pre-assembled. YogaPipe HVAC copper fittings can be brazed onto existing or new copper connections. Copper fittings come un-assembled and the O-rings and collar need to be installed after the brazing process. Detailed instructions at www.yogapipe.com



MALE FITTING



FEMALE FITTING



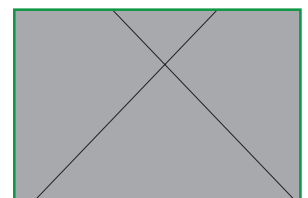
FLARE FITTING



COUPLING



COMPLETED CRIMP CONNECTION



INSTALLATION TOOLS



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TECHNICAL SPECIFICATIONS FOR YOGAPIPE ACR

ICC-ES Listing
PMG-1409

ASTM Listing
F 3346

Working Pressure
580 PSI, Maximum pressure 650 PSI (Do Not Exceed)

Working Temperature*
-40°F to 203°F

Oxygen-Permeability
Zero

Bend Radius
5xD (D=outside diameter)

Thermal Conductivity
1.439 BTU in/h ft F

Coefficient of Thermal Expansion
0.0001 inch/(M.K.)

Corrosion Resistance
Excellent

Life Span / Warranty
Manufacturers warranty is 1 year for pipe and components

Refrigerant Compatibility
YogaPipe is only approved for use under ICC-ES PMG-1409 with R22, R32, R134a, R404a, R407c, R410a and R507

Detectable
Walls and underground

Static Shield
Excellent

YOGAPIPEACR PRE-INSULATED LINE SET WITH POLYETHYLENE FOAM AND PROTECTIVE SKIN

Pre-insulated YogaPipeACR pipe is suitable for applications up to 5 tons.

FEF Foam Insulation Specifications

Polyethylene Foam

The insulation coating is grade low density closed cell polyethylene foam (LDPE Foam)—Insulation material for use on typical HVAC systems.

Density
25 - 33 Kgs/cbm

Wall Thickness
1/2 in. (EN 13467:2004)

Thermal Conductivity
Property 75F Mean Temperature, Value 0.25, 100F Mean Temperature, Value 0.257, Test Method ASTM C 177 or C 518

Working Temperature
Polyethylene foam is suitable for technical applications included in a range temperature from -101°C up to 93°C (-150° F up to 200° F) according ASTM C 1427-07, type I (tubular), grade 1 (non-cross-linked).

Moisture Diffusion Coefficient
= 6000 - 11000 according to EN 13469:2004

Surface Burning Characteristics
25/50 Plenum Rating per ASTM E 84

**For more product info, visit YogaPipe.com
YogaPipe is a registered trademark of YogaPipe Inc.**

FOR INFORMATION CONTACT US AT 1-844-964-2747

* YogaPipeACR is only suitable for use in applications that are designed to operate within the set working temperature parameters as specified in this technical data sheet. Use with higher pressure or temperature voids the warranty and increases the chance of bursting.