

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 and VRF systems.

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:

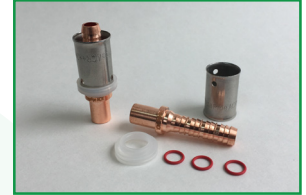
Installation shall comply with the latest installation instructions published by YogaPipe and shall conform to all applicable HVAC, plumbing, fire, and building code requirements. See installation instructions an video at www.yogapipe.com

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.

FITTINGS & COUPLINGS:

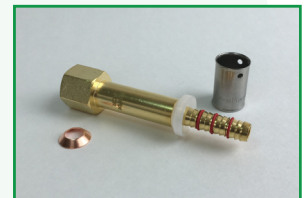
Some YogaPipe fittings come pre-assembled. YogaPipe HVAC copper fittings can be brazed onto existing or new copper connections. Copper fittings come un-assembled and the O-rings and collar need to be installed after the brazing process. Detailed instructions at www.yogapipe.com



MALE FITTING



FEMALE FITTING



FLARE FITTING



COUPLING



COMPLETED CRIMP CONNECTION



INSTALLATION TOOLS



SUBMITTAL FOR YOGAPIPE ACR

Composite Pipe, Insulated Line Sets and Fittings

TECHNICAL SPECIFICATIONS FOR YOGAPIPE ACR

ICC-ES Listing

PMG-1409

Working Pressure

580 PSI, Maximum pressure 650 PSI

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

50yr / 10yr, Pipe will outlast the equipment

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.

PE 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

0,04 W/mK at 40°C (0.263 Btu in/sq. ft.°F h at 104°F) according to ISO EN 8499:1999 and likewise to ASTM E 84.

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

*** 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.**

IMPORTANT! 1 1/8" PIPE IS NOT SUITABLE FOR HEAT PUMP APPLICATIONS.

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

For more product info, visit YogaPipe.com
YogaPipe is a registered trademark of YOGAPIPE, INC.