

# Submittal for YogaPipe ACR Composite Pipe, Insulated Line Sets and Fittings



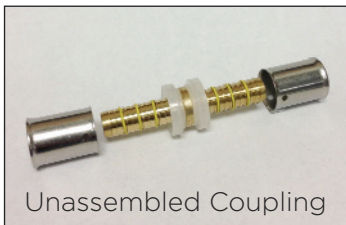
Date: \_\_\_\_\_

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 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.yogapipes.com](http://www.yogapipes.com)

### Specification:

Yogapipes 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 <http://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.yogapipes.com](http://www.yogapipes.com)

## Technical Specifications for YogaPipeACR

### 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

### Detectable

Walls & underground

### Static shield

Excellent

**\* 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.**

**\*\* 1 1/8" pipe is **NOT** suitable for heat pump applications.**

## 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:

UL 94 - Top Rated (ASTM E 84)

### Main Contact Information Toll-Free: 1-844-964-2747

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