

HEAT PUMP PIPE KITS

PRE-INSULATED PIPE SYSTEM



ALL-IN-ONE PRE-INSULATED PIPE PACKAGE FOR QUICK AND EFFICIENT CONNECTIONS FROM HEAT PUMP TO PLANT ROOM

BENEFITS

- Flexible, pre-insulated plastic pipe system Flexalen® 600 with high pressure rating 95°C / 8bar
- The only Cradle to Cradle™ certified pre-insulated pipe system in the world
- Delivered in cardboard box, convenient for storage and transport
- Fast and easy installation with mechanical connections
- Feed and Return in one pipe carrier
- Have a change of direction? - we can supply factory fabrications to suit your sizing - ask us.

HEAT PUMP KIT - CONTENTS

Flexalen 600 pre-insulated twin pipe

4 x compression fitting SDR11 male thread

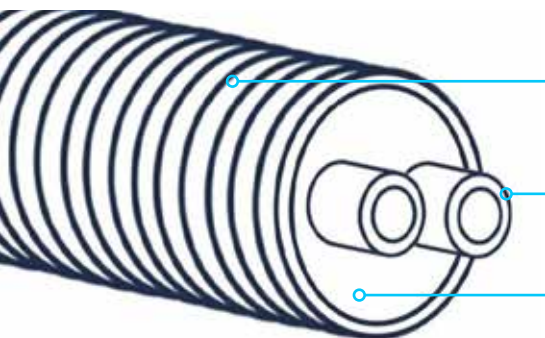
2 x rubber end cap for double pipe

1 x trace warning tape, 100m roll



Full range of accessories and tools available to buy/hire

- Wall entries
- Restraining clamps (recommended)
- Fabrications and change of direction fittings and pre-insulated valves for zonal flow control



FLEXALEN 600

Polyethylene corrugated pipe, PE
Flexibility and mechanical protection

Polybutene service pipe, PB-I

Polyolefin foam
Closed-cell, CFC-free

APPLICATIONS

- Heat pumps
- Geothermal heat distribution lines
- Connection of
 - adjacent buildings
 - plant rooms
 - boiler plants
- Biomass / Pellet plants

TECHNICAL PROPERTIES

Flexalen® 600 is a pre-insulated flexible plastic pipe system produced conform the European standard EN15632-

I,3 and KIWA system certified as well as third-party controlled according BRL KOMO 5609-2 and BRL-K17401.

PB-I service pipe (EN-ISO 15876)	
Max. service temperature	95°C
Continuous service temperature	80°C
Max. operating pressure	8bar*(95°C)

*depending on the diameter

Thermal Insulation
Polyolefin foam
Closed-cell structure, CFC-free
Water vapour diffusion $\mu \geq 3,500$

FLEXALEN® 600 HEAT LOSSES

Heat loss q [W/m] for one Double/Twin line (Feed/Return)

Flexalen® 600 Single line	Operating temperature T [°C]						
	20°C	30°C	40°C	50°C	60°C	70°C	80°C
25 + 25 / 125	2.992	4.987	6.981	8.976	10.971	12.965	14.960
32 + 32 / 125	3.826	6.377	8.928	11.478	14.029	16.580	19.131
40 + 40 / 160	3.356	5.680	8.004	10.328	12.652	14.976	17.300

Calculation parameter

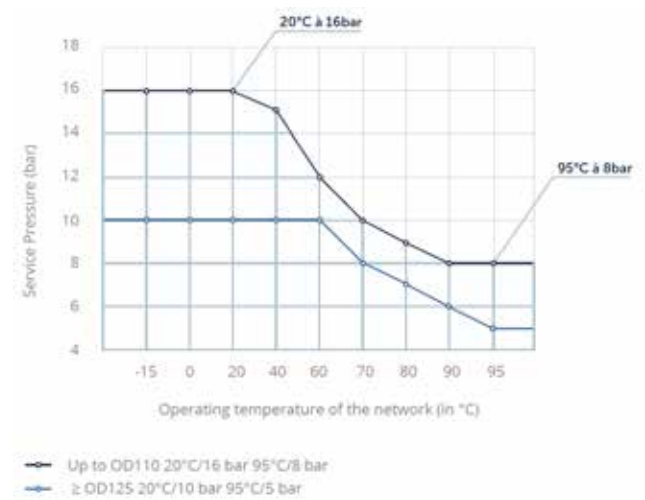
soil: 1.00 W/m K

R soil surface to ambient air: 0.0685 m² K/W

T soil: 10.0 °C

Soil covering: 0.8 m

The heat loss characteristics are in accordance with the European standard for flexible heating pipes systems EN15632. During the expected lifetime of the product these values will increase by 7-10 %.



AVAILABILITY - HEATING / COOLING

Double / Twin Pipe						Packaging	
Product code	Dimension	Service pipe OD x s [mm]	Jacket pipe OD [mm]	Min. Bending radius (m)	Length (m)•	Dimensions (cm)	Weight (kg)
1033-125025-020	25 + 25 / 125	25 x 2.3	125	0.6	8	145 x 145 x 35	21.7
1033-125025-035					12	145 x 145 x 35	27.4
1033-125025-040					16	145 x 145 x 50	33.8
1033-125025-045					20	145 x 145 x 50	39.5
1033-125032-020	32 + 32 / 125	32 x 3.0	125	0.6	8	145 x 145 x 35	23.5
1033-125032-035					12	145 x 145 x 35	30
1033-125032-040					16	145 x 145 x 50	37.2
1033-125032-045					20	145 x 145 x 50	43.7
1033-160040-020	40 + 40 / 160	40 x 3.7	160	0.8	8	145 x 145 x 35	32.2
1033-160040-035					12	145 x 145 x 35	42.1
1033-160040-040					16	145 x 145 x 50	51.7

•Fixed length, other lengths available on request