

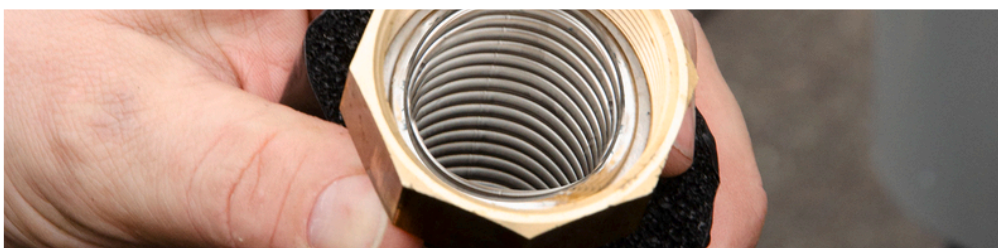


INSTALL IT. TRUST IT.

ArmaFlex Fastlink

The quick-and-easy connection for heat pumps

- // Specially designed ready-to-use heat pump connection
- // Sets contain most convenient sizes DN25 and DN32 , including quick couplings needed to connect the pipes
- // Highly flexible corrugated stainless-steel pipes, practical for confined spaces on the jobsite
- // Efficient energy saving elastomeric insulation – compliant to German Buildings Energy Act.¹
- // UV- and weathering protective coating



 **armacell**[®]
ArmaFlex[®]

ARMAFLEX® FASTLINK

THE QUICK-AND-EASY CONNECTION FOR HEAT PUMPS

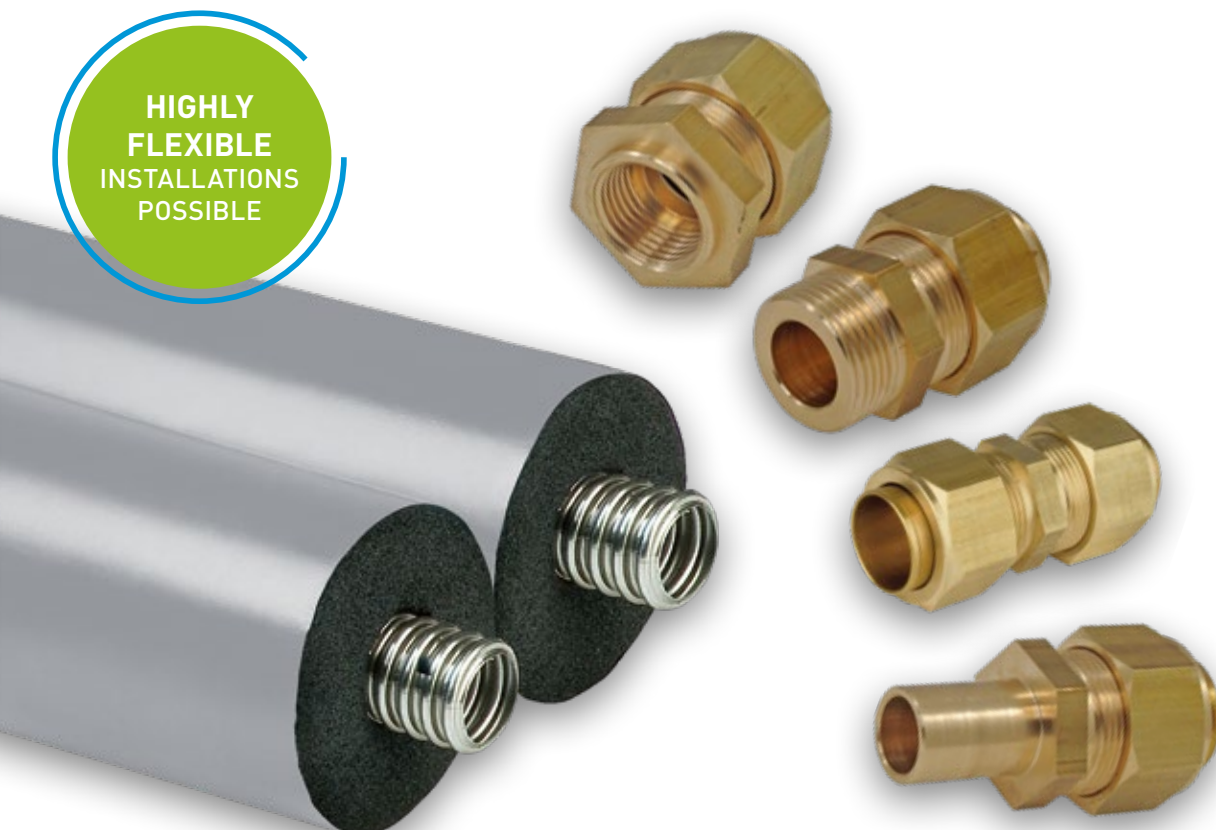
Based on decades of experience and newly acquired technical know-how, our product gives you a solution with an optimised insulating effect and a space-saving alternative for connecting heat pumps. The product enables quick and simultaneous installation of flow and return, consisting of highly flexible corrugated pipes according to 1.4404, and pre-insulated with our insulation materials, it is compliant to German Buildings Energy Act (Gebäudeenergiegesetz, GEG).¹

To protect against weathering or mechanical damage, the insulation comes with a seamless extruded robust UV-resistant outer skin and the closed-cell structure of the inside elastomeric insulation material prevents heat loss and condensation formation. The lengths offered are ideally suited for space-saving installations and offer a quick solution when installing heat pumps close to the house wall. The good bending capacity/flexibility of the corrugated pipes makes it possible to implement individual solutions for the choice of installation location of the heat pump's outdoor unit. The scope of delivery includes the appropriate quick couplings, so that the installation can be carried out fast and easily.

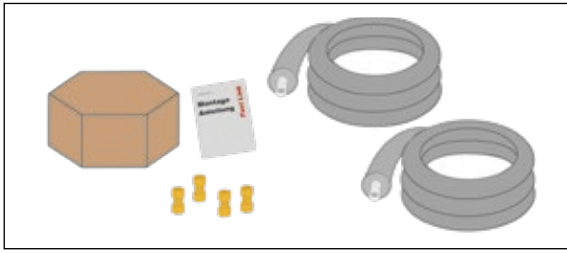
HIGHLY
FLEXIBLE
INSTALLATIONS
POSSIBLE



The use of the unique Armacell elastomer technology enables a compact design and facilitates installation even in tight conditions. Significant time and cost savings are achieved by using the offered lengths of the ready-to-use sets. No special tools are required for installation.

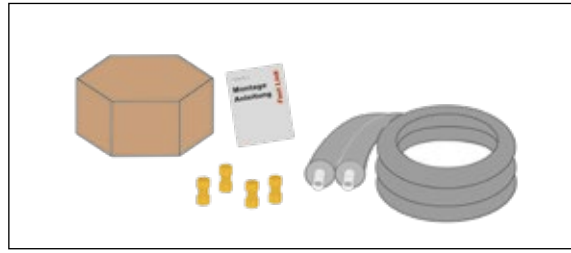


ARMAFLEX FASTLINK DN32



- // Pre-insulated flexible corrugated stainless-steel pipes in handy lengths suitable for quick installation in many structural conditions: 2,4,6,8 metres. Two individual pipes (flow and return flow) in one box.
- // Four quick couplings for common heat pump connections: 1.25 inches external thread, including installation instructions.

ARMAFLEX FASTLINK DN25



- // Pre-insulated flexible corrugated stainless-steel pipes in handy lengths suitable for quick installation in many structural conditions: 2,4,6,8 metres. A double line (flow and return flow) - separable if required - in one box.
- // Four quick couplings for common heat pump connections: 1 inch external thread, including installation instructions.



FAST
CONNECTION OF
HEAT PUMPS



QUICK COUPLINGS



External thread

The scope of delivery includes the screw connections in 1 inch or 1.25 inches external thread. Other connections are available on request.²

SYSTEM ADVANTAGES:

- // The ready-to-use solution for connecting heat pumps: Pre-insulated pipes in practical lengths including quick couplings in one package.
- // Easy installation for varying jobsite conditions, thanks to pre-insulated corrugated stainless steel pipes according to 1.4404, with low bending radii and small outer diameters.
- // Energy saving insulation in accordance with the German Buildings Energy Act (GEG) and reduction of vibrations based on unique Armacell elastomer technology – flexible and CFC-free.¹
- // Durable and resilient coating, for protection of the pipe against external influences and as mechanical protection during installation.

¹ The insulation supplied complies with the German Buildings Energy Act (GEG) and meets the requirement of 50 percent insulation.

² During installation, the usual instructions for the installation of coupling systems must be observed in order to ensure the tightness of the system.

TECHNICAL DATA - ARMAFLEX FASTLINK

Brief description	ArmaFlex Fastlink is a flexible pre-insulated, UV-resistant piping system used to connect heat pumps with the hot-water circuit in a professional way. The system is offered with the most common sizes for heat pumps, i.e. DN25 and DN32 and includes quick couplings, making it ready-to-connect.
Material type	Corrugated austenitic stainless steel hose according to EN 10088-2: X 2 CrNiMo 17-12-2 and DIN 17441: 1.4404 // Fullfill EN ISO 10380:2013 and EN 13618 p.B. 7.2. Polyolefin-copolymer coating. Factory-made flexible elastomeric foam (FEF), according to EN 14304.
Product colour range	Grey
Product range	Pre-insulated corrugated stainless steel tubes in different coil lengths. Each set also includes corresponding quick couplings.
Applications	Flexible piping system to connect heat pump units with hot-water circuit.
Installation	We recommend the use of TL-Tape/50M-GY to be used. Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.
Remarks	During installation, we strongly recommend that metal cable trays are used at every one meter distance to support the whole system as well as the use of the proprietary fitting system to ensure long-term leakage tightness of the system. The heatpump equipment and the heat transfer fluid has to be well matched to ensure corrosion- and interference-free operations.

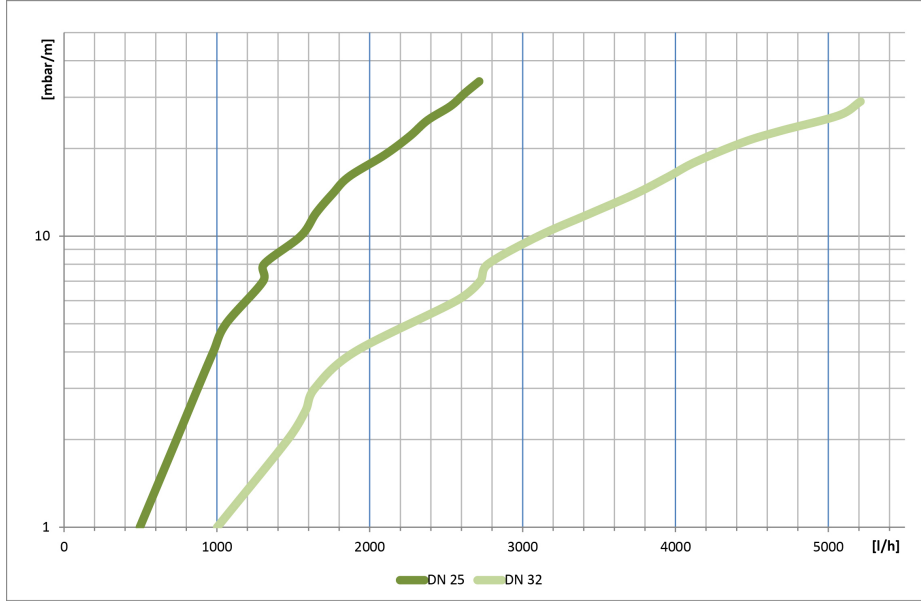
Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature ¹	Min. °C	Max. °C	EN 14707, EN 14304
	-50	110	
Thermal conductivity			
Declared thermal conductivity	θm	40°C	EN ISO 13787, EN 14304
	λd ≤ [W/(m·K)]	0.038	
Fire Performance and Approvals			
Reaction to fire	E(L)		EN 13501-1, EN ISO 11925-2
Physical attributes			
Dimensions and tolerances	In accordance to EN 14304, table 1.		EN 13467
Weather and UV resistance			
UV resistance	Very good		EN ISO 4892-2
Other technical features			
Maintenance	Long term corrosion and failure proof operation of the heat pump equipment is only possible when the system and heat transfer medium are optimally matched to each other.		
Maximum operating pressure [bar] ¹	DN25 = 6 @ 20°C DN32 = 2.5 @ 20°C		

Property

Value / Assessment

Standard / Test method

Maximum operating pressure [graph]²



¹For use in temperatures beyond the maximum and minimum service temperature range indicated in the technical data table, please contact our Customer Service Centre.

²Pressure drop [mbar/m] over Volume flow [l/h] for Medium temperature 20°C // Heat fluid Water.

Coil – pre-insulated with stainless steel pipes. Grey. Range contains sets (2, 4, 6, 8 m length incl. 4 fittings) and endless material (25 m length)

19 mm			
Pipe Ø [mm]	Item	Description	Content [metric]
31	FL-AV-19X25/E02	Set, 2 m long, Duo Pipe, including 4 fittings: SOL-SDN25-E1	2 m
31	FL-AV-19X25/E04	Set, 4 m long, Duo Pipe, including 4 fittings: SOL-SDN25-E1	4 m
31	FL-AV-19X25/E06	Set, 6 m long, Duo Pipe, including 4 fittings: SOL-SDN25-E1	6 m
31	FL-AV-19X25/E08	Set, 8 m long, Duo Pipe, including 4 fittings: SOL-SDN25-E1	8 m
41	FL-AV-19X32/E02	Set, 2 m long, 2 Single Pipes, including 4 fittings: SOL-SDN32-E11/4	2 m
41	FL-AV-19X32/E04	Set, 4 m long, 2 Single Pipes, including 4 fittings: SOL-SDN32-E11/4	4 m
41	FL-AV-19X32/E06	Set, 6 m long, 2 Single Pipes, including 4 fittings: SOL-SDN32-E11/4	6 m
41	FL-AV-19X32/E08	Set, 8 m long, 2 Single Pipes, including 4 fittings: SOL-SDN32-E11/4	8 m

Accessories

Item	Description	Content [quantity]
SOL-SDN25-E1	External thread R1"	50 piece
SOL-SDN25-E11/4	External thread R1 ¼"	50 piece
SOL-SDN32-E11/4	External thread R1 ¼"	30 piece
SOL-SDN32-E11/2	External thread R1 ½"	30 piece
S0-VA-DNI-25	Double nipple 1½" for DN 25	1 piece
S0-VA-DNI-32	Double nipple 1½" for DN 32	20 piece
S0-VA-FIT-25/4	Fitting set for DN25 with 4 of each spring rings, union nuts, washers	1 piece
S0-VA-FIT-32/4	Fitting set for DN25 with each spring rings, union nuts, washers	20 piece
S0-SDN25-E1	External thread R1"	4 piece
S0-SDN25-E11/4	External thread R1 ¼"	4 piece
S0-SDN25-I1	Inside thread G1"	4 piece
S0-SDN25-I11/4	Inside thread G1 ¼"	4 piece

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



For more information, please visit:
www.armacell.com