

LABOUR SAVING

Rapid Fit Pipework System for Industrial Cooling Water

INSTALLING a pipework system for process and cooling water can be labour intensive and costly, but a new rapid-fit system from Legris is cutting the time necessary to construct a network to the minimum.

This addition to the Transair range combines unique coupling technology with high quality stainless steel piping to create a system that is rapid to install and modify, and which is corrosion resistant.

REUSABLE COMPONENTS

A further advantage of the Transair concept - already proven by Legris in the areas of compressed air, inert and industrial gases and vacuum, is that all components are reusable and recyclable.

Once installed, a Transair system can also be modified by the user with no specialist knowledge, making it particularly suitable for the changing needs of locations where new supplies of process or cooling water must be introduced to different areas of the workplace with the minimum of downtime.

Prior to the introduction of Transair,

installation of traditional water supply networks using galvanised steel pipe, copper or even plastic tubing has been a lengthy exercise, with extensive downtime and a consequent loss of productivity. Metal has to be threaded or welded for each connection, while plastic has to be glued and left for anything up to 24 hours to cure. If either system has to be modified, the process is equally lengthy and usually requires the purchase of new components.

Problems remain after installation, as well. Galvanised steel and copper tubing are prone to corrosion and head loss through the formation of sludge, while plastic systems - however connected - can deteriorate through ultra violet light which causes cracks and leakage.

To combat these major problems, Transair has been specially produced in stainless steel, with connectors in high grade engineering polymer and metal. The smooth bore design of the system offers high flow with reduced pressure drop.

Guaranteed for 10 years, Transair is available in 22mm, 28mm, 42mm,



60mm, 76mm and 100mm diameters, with a range of connectors and reducers for system extensions and secondary circuits.

EASY PREPARATION

Pipework is supplied in three and six metre lengths. It is lugged, ready for immediate installation, and its light weight allows for pipecutting and safe, easy system preparation at ground level.

Lengths of pipework are joined by simply slipping a connector onto each pre-lugged end and either screwing or tightening it into place according to the pipe diameter. Because it is a mechanical connection, there is no need for crimping.

Typically, each connection can be made in less than a minute, while disconnection - perhaps to adapt the system further - is equally rapid.

The Transair system includes elbows, tees and a range of reducers to connect pipework of smaller

diameters, together with a lightweight tool to create lugs on pipe ends that have been cut to size.

Maximum service pressure is 10 bar, with working temperatures between -20°C and +60°C.




For more information about Transair and to find your nearest specialist, visit our website:

www.transair.legris.com

Versatile system for compressed air, vacuum and cooling water



Aerazur - Zodiac group - chooses Legris Transair for cooling water distribution

ONE of the first companies to recognise the benefits of Transair for cooling water has been major French manufacturer Aerazur, part of the Zodiac group. The firm has been devoted to the design, development and manufacture of high quality safety and survival equipment, mainly for the aerospace industry, the armed forces and armaments industry, for more than 60 years, in over 50 units worldwide. Today it produces its own range of products as well as equipment for major contractors.

DEDICATED

Aerazur's production facility in Normandy is especially dedicated to automotive activity, with the production of airbags, and to aeronautics with high tech rubber flexible products such as flexible fuel cells, de-icing systems, flexible tanks, anti-pollution booms and elastomer products.

Following a decision in 2004 to

build their new unit in the west of France, Aerazur needed a versatile system for its compressed air, vacuum and cooling water networks. They looked naturally to Transair for the compressed air pipework system because of their good experience with

System offered benefits and advantages

the product in their previous factory with compressed air and vacuum. The new Transair system for cooling water applications was a bonus as it offered most of the benefits and advantages of the compressed air pipework.



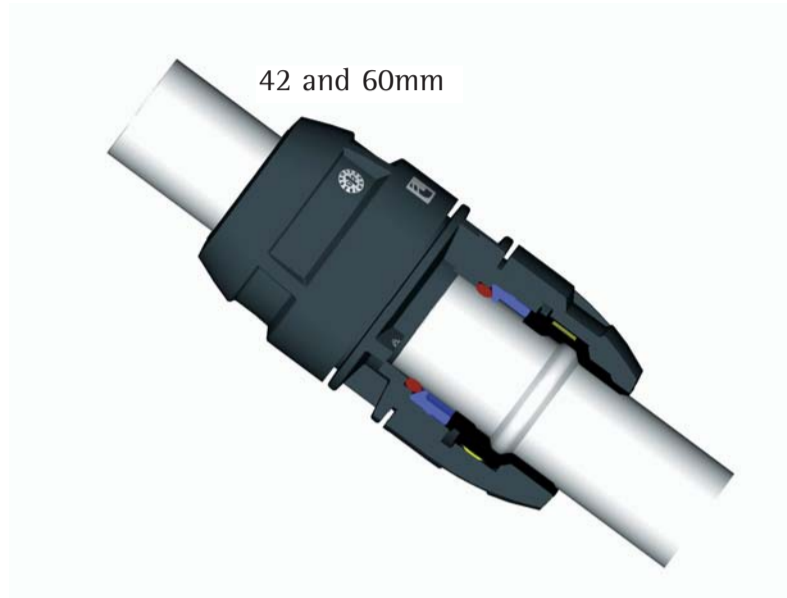
Aerazur selected Transair because of its:

- Versatility
- Potential for system development
- Easy modification
- Ease of installing drops in usually inaccessible places
- Little need for tools
- Quick installation
- Easy of connection from the network to machinery
- Clean operation
- Aesthetic appearance
- Innovative nature

PROJECT SIZE

Air network – aluminium pipe
90 metres of 40 mm diameter with 25 outlets
Cooling water network – stainless steel pipe
78 metres of 42 mm diameter
12 metres of 60 mm diameter

MAJOR BENEFITS FROM TRANSAIR SYSTEM



ADVANCED TECHNOLOGY AND RAPID CONNECTION MAKE THESE SPECIAL TRANSAIR COMPONENTS THE IDEAL CONNECTIONS FOR COOLING WATER PIPEWORK SYSTEMS

IN addition to its major benefits of rapid installation and modification, Transair offers significant benefits in use over traditional pipework systems.

QUALITY, RELIABILITY AND DURABILITY

High resistance to

- Corrosion
- Fire
- Thermal variations
- Mechanical shocks
- UV

TRACEABILITY

All products are Transair® branded and are immediately identifiable.

CLEANLINESS GUARANTEED

Reduced risk of sludge formation compared to galvanised steel pipe or copper tubing thanks to :

- Components produced in stainless steel and polymer HR)
- smooth bore design for high flow and reduced pressure drop/ head loss

DURABILITY

- Stainless Steel pipe and components
- Products guaranteed for 10 years

ENVIRONMENT

All products are 100% recyclable.

SAFE AND SIMPLE

Transair advanced design means clean and safe site conditions, while assembly without the need for welding or glueing is a reliable method for the prevention of leaks.

Mechanical connection without crimping reduces assembly time, while pipes and connectors are supplied ready for immediate installation. The system allows for easier handling, too, with ground level preparation plus lightweight portable tools. The Network is quickly in use with an immediate start-up.

VERSATILE AND EVOLUTIONARY

Because of its reusable mechanical connection technology, Legris Transair is the only pipe distribution system for cooling water to offer almost instant modification, fast system extension or the rapid installation of secondary circuits. The connection is simply screwed together which enables disassembly when required, unlike other connection technologies which are permanently crimped or welded.

APPLICATION FIELDS

Cooling water pipe distribution system for industrial buildings (closed loop water circuits)

THE TRANSAIR RANGE

Stainless steel pipes, connectors, branches and reducers in ø42 mm, ø60 mm, ø76 mm, ø100 mm and accessories.

- Pipe
- Connector
- 90° elbow
- 180° and 45° elbow
- Equal tee
- Reducing tee
- Threaded tee
- Reducer
- End cap
- Male threaded adaptor
- Fixing clip
- Valve
- Flange / Gasket
- Jaws for portable tool

All Transair components can be demounted and reused.



Companies already using Legris' new TRANSAIR system

AERAZUR (ZODIAC group)
MPAP (TREVES group)
SASPLAST
FICOMIRRORS
KOLKMAN HEDEL

legris
 transair

“Shopping list” software provides optimum solution for pipework installations

NEW TRANSAIR DESIGN SYSTEM

LEGRIS has produced special Transair Design System software to assist in the production of drawings and quotations for the installation of projects using its advanced Transair air pipework system.

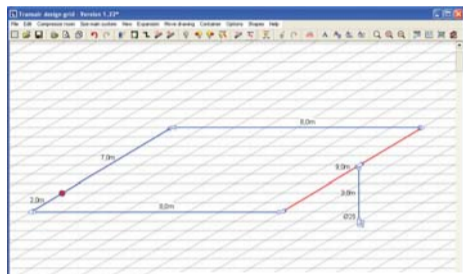
The arrangement of the compressed air system is drawn on a 3D grid. Pipe lines can be drawn in four horizontal directions (left, right, in and out) and in two vertical directions (upwards or downwards). Branch lines may be added as the drawing progresses or can be added once the main distribution system drawing has been completed.

LOOP TYPE SYSTEM

The main distribution system will normally comprise a loop type system - the most efficient means of distributing compressed air - and a single main header should be used only in exceptional circumstances.

When the main distribution

pipelines have been drawn, the system should be sized to provide an economical installation with acceptable pressure loss.



Quantite	Transair ref	Point size	Description	Quantite	Coût	Mont Total
4	8602 25 00	25	Coude 90°	4	19,90	79,56
2	8604 25 00	25	Té égal	2	26,64	53,28
1	4000 25 00	25	Reducteur double régl. à purge	1	51,40	51,40
13	3000A 25 04 00	25	Tube rigide aluminium calibre 3m	13	23,39	304,07
28	8607 25 00	25	Clip de fixation pour tube rigide aluminium	28	1,96	54,88
9	8606 25 00	25	Manchon	9	17,78	142,24
				Total	642,32	

Ancillary items can be added to the drawing by selecting and pasting them from the product catalogue display. They can also be added directly to the shopping list without

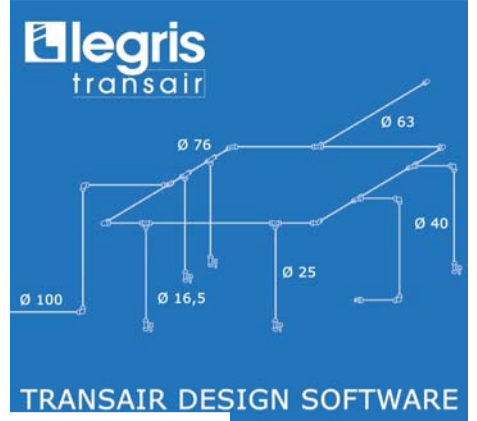
appearing on the arrangement drawing.

The shopping list will display all the components and pipe sections necessary to produce the distribution system that has been drawn.

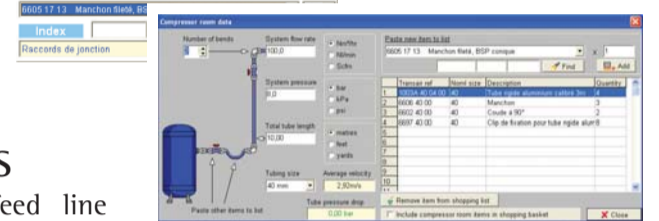
USER DEFINED COSTS

The “compressor room” feed line components may also be selected by the software. If the “compressor room” option is chosen, the components for this feed line will also appear on the shopping list. User defined costs such as installation labour and hire of scaffolding can be added to the shopping list by the user to produce an overall costing of the installation. The shopping list data may be copied to the clipboard and pasted into a Word document or an Excel spreadsheet.

The current view of the drawing may be copied to the clipboard and



Ø	C	Transair	E	G	H	Ø
16,5	R1-4	8605 17 13	9,5	34,0	62,5	0,101
16,5	R1-2	8605 17 21	15,0	34,0	60,0	0,111
25	R1-2	8605 25 21	15,0	44,5	70,5	0,188
25	R1-4	8605 25 27	15,0	44,5	71,5	0,178
25	R1*	8605 25 24	16,0	44,5	71,5	0,230
40	R1*	8605 40 24	16,0	67,0	111,5	0,585
40	R1*4	8605 40 42	21,5	67,0	111,5	0,540
40	R1*2	8605 40 48	24,5	67,0	114,5	0,625
63	R2*	8605 63 48	20,0	91,0	148,5	1,050
63	R2*2	8605 63 47	25,0	91,0	130,5	1,480

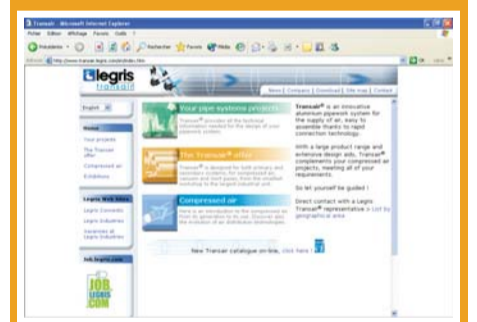


pasted into a suitable imaging package, or alternatively the view can be saved as a PDF file or a jpg image. The shopping list and the current view of the drawing can also be printed.

Request your Transair Design System Software by sending your full contact details to:

contact@legris.com

www.transair.legris.com
The practical direct link to your air pipework systems projects



- General information about compressed air
- Project support
- Downloadable documentation (products catalogues, promotional leaflets, instructions guide)
- Practical tools (TRANSAIR FLOW CALCULATOR)

