

The TR, TP, AGIL range

Storing and transporting
liquid nitrogen



The TR and TP range

THE TR RANGE

TRs are non-pressurised containers designed for storing and transporting liquid nitrogen.

Roller base with castors, tipping handle, tipping stand, dispensing system: TRs can be fitted with a range of accessories that make your work easier and more efficient.



NON-PRESSURISED CONTAINERS

Strength

Their light alloy construction and composite material neck allow a combination of low consumption, strength and lightness.

Quality of finish

The polyurethane paintwork gives the container an exceptional quality of finish and long life.

Transfer solutions

Various dispensing systems can be fitted to containers. Their flange fixing is quick and sure.

Compliance with regulations

The TR range complies with international regulations applicable to the transport of dangerous materials (ADR and IATA-OACI).

SELF-PRESSURISED CONTAINERS

Easy of use

Nitrogen is available at all times by simply opening the valve.

Compact, the TP35 can be put under a laboratory bench.

In the self-pressurised container sphere, TPs have the special feature of being made of aluminium, so combine lightness with strength.

Reliability

The self-pressurising system is based solely on simple physical principles.

Quality of finish

TPs fit naturally into the laboratory environment.

THE TP RANGE

Self-pressurised aluminium containers, TPs are designed for storing and dispensing liquid nitrogen at low pressure.

A float-type level indicator enables the quantity of liquid available to be quickly checked. The operating head, removable in seconds, is fitted with a pressure level rod and 2 safety valves.



The AGIL range

Stainless steel containers

Carrying your samples in the laboratory



EXTRAS THAT MAKE THE DIFFERENCE

Strength

Their stainless steel construction is extremely strong.

Handleability

The pouring handle makes work easy and enables the Dewar to be handled in complete safety.

Wide variety of use

It is possible with both hot or cold liquids.

AGILs are stainless steel, vacuum insulated containers.

The range includes 6 models with capacities from 0.5 l to 6 l. They can be fitted with lids (optional).

Although AGILs are often used for handling liquid nitrogen, their uses cover a wide range of temperatures from -200°C to +200°C, which makes them suitable for a large number of laboratory applications.

Light, strong and compact, AGILs are practical to use because of their top and side handles.

Features	AGIL 0,5	AGIL 1	AGIL 1/L	AGIL 2	AGIL 3	AGIL 6
Effective capacity (l)	0,5	1	1	2	3	6
Internal diameter (mm)	65	85	100	100	185	185
External diameter (mm)	87	107	122	122	200	200
Weight empty (kg)	0,56	0,95	0,80	1,35	1,78	2,40
Total height (mm)	203	231	177	312	190	300
Daily evaporation (l/D)* at 20°C without lid	1	0,9	1,6	1,1	3,1	2,9
Static holding time (h)* à 20°C without lid	12	26	15	43	23	49

*The daily evaporation and static holding time are given for 20°C, 1013mb, stationary container and lid closed. These are nominal values and may vary according to the history of the container and manufacturing tolerances.

**Indicative value that can vary greatly in accordance with the filling time.

(1)AIR LIQUIDE reserves the right to change information in this document without prior notice.



Tipping stand

Tipping handle



TP head



Hand-rail

ACCESSORIES

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Lid for AGIL 0,5 (cork)	REF: 1200017
Lid for AGIL 1 (cork)	REF: 1200018
Lid for AGIL 1/L et AGIL2 (cork)	REF: 1200019
Lid for AGIL 3 et AGIL 6 (cork)	REF: 1200020
Lid for TR 7/11/21/26/35/60/100	REF: NH92623
Lid TR with loss-prevention system	REF: NH102486

ROLLER BASES ON CASTORS

Roller base with fixing on braked castors TR21/TR26 diam. 380	REF: NH94406
Roller base with fixing on braked castors TR35/TP35/TR60/TP60 diam. 460	REF: NH92848
Roller base with fixing on braked castors TR-TP100 diam. 503	REF: NH92775
Amagnetic roller base on braked castors TR35/TP35/TR60/TP60 diam. 460	REF: NH93941
Amagnetic roller base on braked castors TR-TP100 diam. 503	REF: NH93942

DISPENSING SYSTEMS

DL3 for TR	REF: DL3
Simplified dispensing system for TR	REF: NH96002
Transfer pump NL PC 250-220 V CA pour TR	REF: NH32741-1
Transfer pump NL PC 250-24 V CA pour TR	REF: NH32741-3
Operating head TP35	REF: NH95809
Operating head TP100	REF: NH92961
Operating head TP60	REF: NH92960
V nilic hose 10*14 for pump PC250, per metre	REF: 1700051

TIPPING STAND

Tipping stand for TR21-TR26	REF: NH94632-1
Tipping stand for TR35	REF: NH94632-2

TIPPING HANDLE

Tipping handle (manual tipping) for TR21-TR26 diam. 380	REF: NH93077
Tipping handle (manual tipping) for TR7-TR11 diam. 300	REF: NH93266

HAND-RAIL

Hand-rail for TP35, 60, 100	REF: 3H92628
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FLEXIBLE HOSES

Flexible hose DN 10-130/TC for nitrogen L 800	REF: FL180TCNLF08
Flexible hose DN 10-130 130 for nitrogen L 1100	REF: FL180180NLF11
Flexible hose DN 16 600-130 for nitrogen L 1500	REF: FL630180NLF15
Flexible hose DN 16 600-130 for nitrogen L 2200	REF: FL630180NLF22
Anti-splash nozzle	REF: 0700007



Lids for AGIL



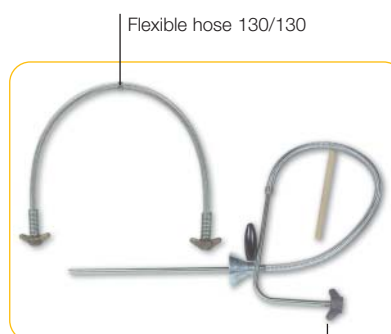
Anti-splash nozzle



Roller bases



Pumps PC 250 + DL3



Flexible hose 130/130

Flexible hose 130 TC



Dispensing system



TR: NON-PRESSIRUSED CONTAINERS

Features	TR7	TR11	TR21	TR26	TR35	TR60	TR100
Useful capacity (l)	7,2	12,2	21,5	26	33,6	60	99
Diameter of neck (mm)	50	50	50	50	50	50	50
Weight empty (kg)	6	7,5	11	13,5	15,8	21,5	29,5
Weight full (kg)	11,8	17,3	28,3	34,6	43	70	110
External diameter (mm)	308	308	388	388	468	468	510
Total height (mm)	480	584	605	669	655	869	986
Daily evaporation (l/D)*	0,2	0,18	0,18	0,2	0,24	0,4	0,55
Static holding time (d)*	36	67	119	130	140	150	180
Total internal height (mm)	405	530	535	612	580	800	933

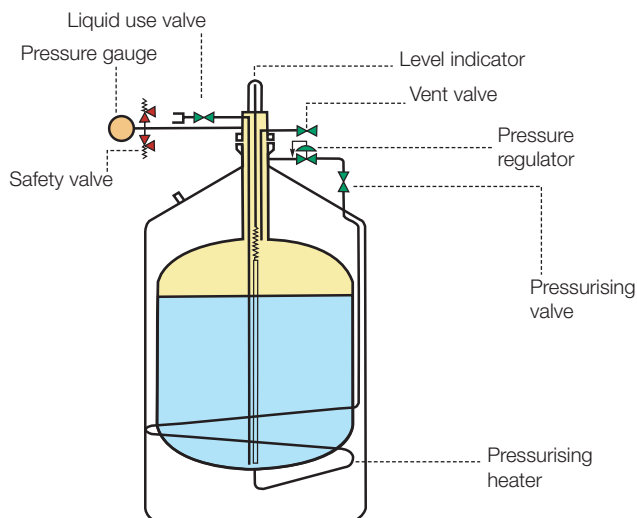
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TP: SELF-PRESSURISED CONTAINERS

Features	TP35	TP60	TP100
Useful capacity (l)	35	60	98
Diameter of neck (mm)	50	50	50
Weight empty (kg) (with operating head)	19,8	26,4	33,5
Weight full (kg) (with operating head)	48	74,5	113,5
External diameter (mm)	468	468	510
Total height (mm) (with operating head)	853	1080	1213
Daily evaporation (l/D)* (with operating head)	1	1	1,3
Static holding time (d)*	35	60	75
Total internal height (mm)	580	815	945
Standard maximum working pressure (bar)	0,5	0,5	0,5
Maximum flow (l/mn)	2,4 (P=0,5b)	3,5 (P=0,5b)	5,2 (P=0,5b)

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