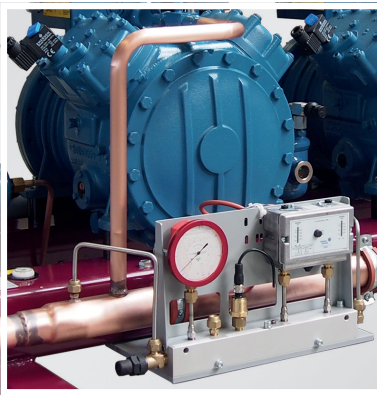




PANIMPEX CATALOGUE 2019



SMART MOBILE MEASURING



GAUGES & VACUUM GAUGES
MANIFOLDS & HOSES



SUPER-SEAL



REFRIGERATION TECHNOLOGIES



MAINTENANCE & CALIBRATION

PANIMPEX NV



PANIMPEX NV has been producing the famous **Blondelle 'A Lame Acier'** gauges successfully since 2001. Panimpex introduced the first CO2 Transcritical manifold successfully in 2006 and automotive CO2 quick couplers in 2014.

The **Blondelle** expertise in mechanical engineering and the know-how derived over 75 years of experience is the basis of the continuous drive for perfection and innovation in the production of pressure measurement instruments.

From this manufacturing and development know-how an innovation was born: **Metreco - Smart Mobile Measuring**. This industry innovation will change the way technicians work.

With more than 20 years of experience in hand leak detectors Panimpex has selected and designed a calibrated reference leak and is co-branding this with the manufacturer HTP as **Panimpex Leak Detection**. The calibrated leak is F-GAS certified!

Cliplight / Diversitech markets the **Super Seal** in Europe through Panimpex NV.

Refrigeration Technologies Inc., is located in Fullerton (CA) USA, and goes to market in Europe through Panimpex NV as a master distributor with their products Check-Mate, Big Blu, Nylog etc.

In our continuous strive for quality and customer service we are ISO9001:2015 certified.

ISO 9001:2015 certified by the Lloyd's Register Quality Assurance





Foretelling.



Forecasting.

Let's face it.

The way we are measuring refrigeration systems is like forecasting the weather with a barometer : 'It gives you an indication, but it's far from precise'

But what if there were a way to be more accurate in our measurements? And what if we could take those read-

ings simultaneously and compare the data on a simple spreadsheet?

That would be the difference between a calculated guess and measuring with swiss precision.

We would be able to adjust the systems so well that it would save a vast amount of energy.

That would make for a very happy customer! If we could only do JUST that.

Well, we can! Wireless, no hoses and single handed. And fast too.

Get more work done in less time, save energy and save money (Lots of it). Get a Metreco.



METRECO

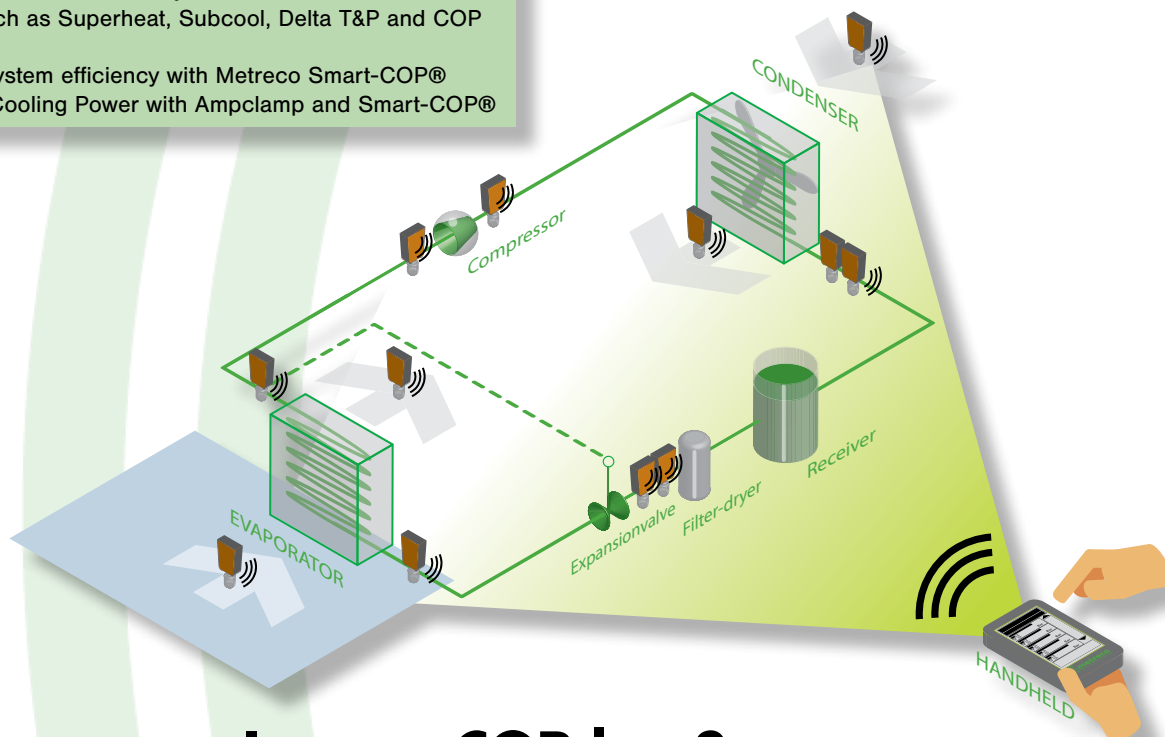
smart mobile measuring



Metreco

smart mobile measuring - digital wireless system analyzer

- Digital Wireless System Analyzer
- Measure and log all critical system data in real time, also COP
- Improve on-site efficiency - Be more professional
- No more running around- Speed up measurements
- Gain time substantially on each job
- Certified reporting and PED protocols
- Pressure and Vacuum Decay Tests
- All data such as Superheat, Subcool, Delta T&P and COP
- Optimize system efficiency with Metreco Smart-COP®
- Calculate Cooling Power with Ampclamp and Smart-COP®



**Is your COP low?
You'll never know.**



Of course, you could check the factory values. But that would be like believing the factory MPG values in a car commercial.

The truth is, the COP of any cooling system depends highly on operating conditions. So, there's no alternative than to average it against expected conditions, right?

Wrong. Meet the new Smart-COP feature of Metreco.

The wireless measuring system now provides you with exact COP values. Fast, precise and in real time.

Imagine the cooling technician addressing his client: "I've just improved your COP from 3 to 4. Which saves you £xx,xx a year. You're welcome."

Now that would make for a very happy client, wouldn't it?

The bottom line: Metreco enables cooling technicians to save energy, time and money.

Now that's smart mobile measuring. That's Metreco.

Metreco - Standard Case

smart mobile measuring - digital wireless system analyzer



Metreco Handheld



Metreco Sensors



- Dynamic measuring with METRECO, Smart Mobile Measuring, instead of static measuring with traditional manifold with hoses and temperature probes.
- Up to 10 sensors transmit their measurements simultaneously to the Handheld: no hoses - no lines.
- The user positions himself where he wants/walks around and can read out the measurements in real time.
- Intuitive/natural easy-to-use interface is operated with a capacitive touchscreen.
- Define your measurement/value targets - get a warning when they are off.
- Measurement - Diagnosis - Suggestions / Solutions.
- Database of serviced ACR systems available on Handheld & PC.
- Measurement reports on Handheld & PC.
- Intervention reports on Handheld & PC.
- Charge your handheld and sensor batteries in the specially designed case / docking station.
- Extra hoses and connectors for handling refrigerant.

Metreco is supplied with:

- 1 Charging station / case
- 1 Low Pressure Sensor 20 Bar
- 1 High Pressure Sensor 50 Bar
- 2 Temperature sensors -50+150°C
- Metreco Handheld
- Adaptor 230V
- 12V cigarette lighter plug
- USB cable
- Manual
- Set of hoses & connectors

- Product code: MT01ST



Metreco - COP Case

smart mobile measuring - Smart-COP®



- Measure the system's instant, real time and average COP with Metreco Smart-COP®
- Cooling COP & Heating COP
- Calculate the system's Cooling Power by measuring the absorbed electrical power and the COP
- Measure the COP several times each year and calculate your Seasonal COP
- Prove the energy efficiency enhancement you have established by measuring the COP before and after you intervention and prove the savings you made possible



Metreco Handheld



Metreco Sensors



Metreco with Smart-COP® is supplied with:

- 1 Charging station / case
- 1 Low Pressure Sensor 20 Bar
- 2 High Pressure Sensors 50 Bar
- 3 Temperature sensors -50+150°C
- 1 Absolute Vacuumgauge with overpressure & ball valve
- 1 Amp-probe with Rogowski coil
- 1 Repeater (range extender)
- Metreco Handheld
- Adaptor 230V
- 12V cigarette lighter plug
- USB cable
- Manual
- Set of hoses & connectors

- Product code: MT01COP





TRACK YOUR MEASUREMENTS

at anytime ☁ from anywhere



Metreco - Cloud Connect

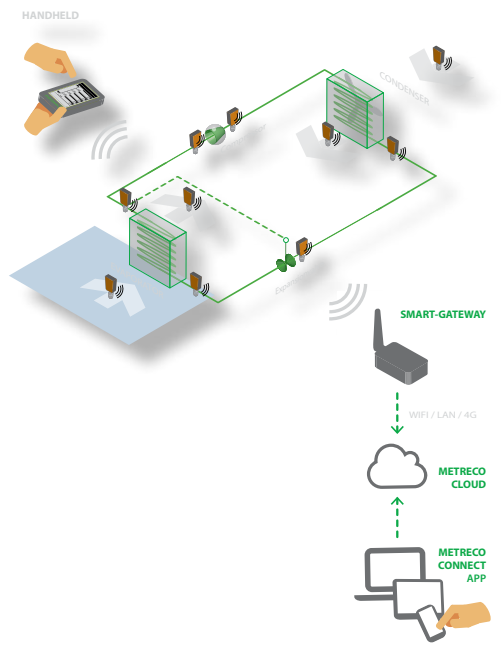
smart mobile measuring - digital connected system analyzer

Upgrade or new system?

The Metreco CLOUD Connect system is available for anyone. As a problem free extension by adding the Smart-Gateway to an existing Metreco system. Or in a completely new Metreco system with the Smart-Gateway and Metreco CLOUD. With CLOUD Connect the handheld becomes optional.

Why is CLOUD Connect perfect for me?

- easy follow up, visualization and reporting of all critical system values
- short term & long term measuring, logging and monitoring
- analyze a single system or multiple sites
- connect to Metreco CLOUD using our WIFI and 3G/4G enabled Smart-Gateway
- commissioning
- troubleshooting
- efficiency optimization



Sensors

Discover the complete system and all the sensors on www.panimpex.com/metreco



Short or long term needs? The sensors battery life depends on the send frequency, change the frequency depending according to the needs of your next project:
 1s = 1 week / 30s = +3 months / 60s = +6 months / etc.

How big is your project?

Metreco CLOUD Connect is perfect for analyzing on any scale. The modularity of the CLOUD app makes it possible to monitor up to 20 sensors per gateway.



CLOUD app

- Real-time monitoring, Graphs, Trends & Analysis
- All Critical System Values
- Energy Performance Indices: COP, SCOP/SEER, SPF, SEI
- COP & SEI Boundaries
- Warnings (customizable)
- Reports with sensor calibration traceability
- Pressure Decay Test with Temperature Compensated Pressure
- Vacuum Decay Test with Humidity Evaporation Curve relative to Vacuum Pressure
- Multiple Gateways
- Multi-site Trend Comparisons
- Data analysis & Benchmarking

CLOUD plans

	Monitoring	Graphs	Storage	Warnings	Reports	Trends	Data Analysis & Benchmarking	Multiple Gateways	Multi-site Trend Comparisons	Annual Fee
Basic	•	•	•							•
Premium	•	•	•	•	•					•
Pro	•	•	•	•	•	•	•	•	•	•



Metreco NH3 Kit

Specially designed sensors and hoses for Ammonia applications



- 20 Bar Low pressure sensor
- 50 Bar High pressure sensor
- Stainless steel 1/4" SAE female connectors
- 3 hoses
- Connectors: 1/4"SAE-1/4"GAS & 1/4"GAS-1/2"GAS & T-connector
- NH3 - R717 - Ammonia

■ Product code: KN01ST

Metreco CO2 Transcritical Kit

Specially designed sensors and hoses for CO2 Transcritical applications



- 100 Bar Low pressure sensor
- 200 Bar High pressure sensor
- 3 hoses
- CO2 Transcritical - R744

■ Product code: KC01ST

Metreco Absolute Vacuum Kit

Absolute vacuum sensor & Valve core remover



- Absolute vacuum sensor (Class 0,5)
- with safety valve (+60Bar)
- with ball valve
- Range: +1000mBar - 0mBar
- Valve core remover

■ Product code: KV01ST

Metreco Standard Pressure Sensors

Standard refrigerants: HFC, CFC, HCFC & CO2 Subcritical



- -1..20 bar pressure sensor, 1/4"SAE female
- -1..50 bar pressure sensor, 1/4"SAE female
- CFC, HFC, HCFC and CO2 Subcritical
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure: 40 bar / 100 bar
- Burst overpressure: 70 bar / 150 bar

- Autonomy ON: >180h (>7days) (1s interval)
- Autonomy OFF: >1,5 year
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code: LP: Pb0020M14S - HP: Pb0050M14S

Metreco NH3 Pressure Sensors

NH3 - R717 - Ammonia



- -1..20 bar pressure sensor, stainless steel 1/4"SAE female, NH3
- -1..50 bar pressure sensor, stainless steel 1/4"SAE female, NH3
- R717 (NH3 - Ammonia), CFC, HFC, HCFC, CO2 Subcritical
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure (20/50 bar) : 40 bar / 100 bar
- Burst overpressure (20/50 bar): 70 bar / 150 bar

- Autonomy ON: >180h (>7days) (1s interval)
- Autonomy OFF: >1,5 year
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code: LP: Pb0020i14S - HP: Pb0050i14S

Metreco CO2 Transcritical Pressure Sensors

CO2 Transcritical



- -1..100 bar pressure sensor, 1/4"SAE female, CO2 Transcritical LP
- -1..200 bar pressure sensor, 1/4"SAE female, CO2 Transcritical HP
- CO2 Transcritical (also suitable for CFC, HFC, HCFC)
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure (100/200 bar) : 200 bar / 400 bar
- Burst overpressure (100/200 bar) : 250 bar / 450 bar

- Autonomy ON: >180h (>7days) (1s interval)
- Autonomy OFF: >1,5 year
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code: LP: Pb0100M14S - HP: Pb0200M14S

Metreco Temperature Sensors

PT1000 Sensor



- Range: -50+150°C
- Precision: 0,5°C
- Autonomy ON: >120h (>5days) (1s interval)
- Autonomy OFF: >1,5 year

- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- With Velcro strap for pipe mount
- With clamp for ventilator air flow
- With Stick-in probe for product core temperature & water cooling curtains

- Product code:
Tc0150PV (Velcro)
Tc0150PK (Clamp)
Tc0150PP (Probe)

Metreco Absolute Vacuum Sensor

Absolute vacuum, does not need calibration before use



- Absolute vacuum sensor, does not need calibration before use
- Range: +1000mBar - 0mBar
- Precision: Class 0,5 (0,5% FS)
- Overpressure: 5 bar

- Autonomy ON: >180h (>7days) (1s interval)
- Autonomy OFF: >1,5 year
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Also available with safety valve (+60Bar) and ball valve

- Product code: Vm1000M14S -
Vm1000M14S-28 (Ball valve)

Metreco Amperage Sensor

With easy to apply Rogowski coil



- Electrical intensity
- 2 Amperage ranges in 1 device: 0-25A & 0-500A
- Flexible Rogowski Coil
- Precision: +-100mA (0-25A) & +- 250mA (0-500A)

- Autonomy ON: >120h (>5days) (1s interval)
- Autonomy OFF: >1,5 year
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Measure 1-phase or 3-phase
- Measure 3-phase with 1 sensor or more accurate with 3 sensors

- Product code: Ca0600RG



Metreco Radio-Signal Repeater

Range extender +150m - repeats all Metreco radio signals



- Radio frequency repeater
- Range extension: +150m
- Repeats all Metreco radio signals
- Combine multiple repeaters if necessary
- Available with Velcro strap and clamp

- Product code: RPT01V (Velcro) - RPT01K (Clamp)

Metreco Cloud Connect Gateway

Connect to the Metreco Cloud using the Smart Gateway



- Expand your measuring options using the Smart Gateway
- Wifi or 3G/4G & Wifi gateway
- Up to 20 sensors per gateway
- Use of multiple gateways on multiple sites possible

- Metreco Cloud Connect Subscription necessary
- Smartphone & Tablet App - Android & IOS
- Desktop Webbrowser interface

- Product code:
GW01ST (3G/4G)
GW01EW (Ethernet & Wifi)
GW01ET (Ethernet)

Metreco Accessories & Spares

- Check our website: www.metreco.com
- Contact us: info@metreco.com

We strongly advise you to have your sensors calibrated yearly in accordance with European and local legislation!



Metreco Product References

Panimpex Code	Description
Device	
MT01ST	Metreco HVAC MK1: standard complete Metreco Set
MT01AA	Metreco complete set without sensors
MT01COP	Metreco COP Kit 3 pressure, 3 temp, 1repeater, 1 amp clamp, 1vacuum
Kits	
KV01ST	Kit Vacuum: Vacuum sensor (Overpressure- & Ball Valve) + schraeder remover
KC01ST	Kit CO2 Transcritical: 100Bar & 200Bar pressure sensors + hoses
KN01ST	Kit NH3: 20bar & 50Bar pressure sensors with Stainlesssteel couplers + hoses
Spare Parts	
HH01ST	Metreco handheld standard
GW01ST	Smart Gateway - 3G/4G
GW01EW	Smart Gateway - Ethernet & Wifi
GW01ET	Smart Gateway - Ethernet
Pb0020M14S	-1..20 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0050M14S	-1..50 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0020I14S	-1..20 bar pressure sensor, stainless steel 1/4"SAE female (NH3)
Pb0050I14S	-1..50 bar pressure sensor, stainless steel 1/4"SAE female (NH3)
Pb0100M14S	-1..100 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0200M14S	-1..200 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Tc0150PV	-50..150°C temperature sensor, Velcro
Tc0150PK	-50..150°C temperature sensor, Clamp
Tc0150PP	-50..150°C temperature sensor, Stick-sensor
Vm1000M14S	Absolute vacuum Sensor
Vm1000M14S-28	Absolute vacuum Sensor + Overpressure valve + Ball valve
RPT01V	Repeater: range extender +150m with Velcro
RPT01K	Repeater: range extender +150m with Clamp
Ca0600RG	Electrical intensity sensor: Amperage sensor with Rogowski coil - 0-500A
DS01ST	Standard Metreco case & charging-station
MA01ST	Standard accessories for Metreco: hoses, couplers, adaptors, USB-cable
MA01ST contains	
S41B12-150	Red hose, 1/4"SAE-1/4"SAE with ball-valve; 1,5m; teflon; 55 Bar
S41B13-150	Blue hose, 1/4"SAE-1/4"SAE with ball-valve; 1,5m; teflon; 55 Bar
S41B14-150	Yellow hose, 1/4"SAE-1/4"SAE with ball-valve; 1,5m; teflon; 55 Bar (2pcs in MA01ST)
AC0107-8101	T-connector 1/4"SAE female with swivel and 2x 1/4"SAE male with schraeder
AC0107-8102	X-connector 4x 1/4"SAE male
AC0107-7410	Adaptor 1/4"SAE - 5/16"SAE (2pcs in MA01ST)
AC0107-8104	USB cable
AC0107-8105	12V Cigarette lighter cord
AC0107-8106	230V wall charger, europe
Other Spares	
CERTIFICAT-MTO	Sensor Calibration Certificat – complete Metreco set
CERTIF-ETAL	Sensor Calibration Certificat – individual Sensor
T3AW	set of 3 hoses for Ammonia, R717, NH3, 1,5m, 1/4"SAE-1/4"SAE
T3BE	set of 3 hoses for CO2 Transcritical, R744, WP200Bar, 1,5m, 1/4"SAE-1/4"SAE
AC0107-3010	Valve Core Remover





BLONDELLE GAUGES

BLONDELLE GAUGES



Blondelle Pressure Gauge, Ø60, Aluminium



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually
- Aluminium case
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Low Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0601V14S				
		1/8" NPT	MA0601V18B				
Oil filled	Rear	1/4" SAE	MA0601A14S				
		1/8" NPT	MA0601A18B				
	Vertical	1/4" SAE	MA1001V14S				
		1/8" NPT	MA1001V18B				
	Rear	1/4" SAE	MA1001A14S				
		1/8" NPT	MA1001A18B				
				1001		-1+10	R507+R404A+R407Cvap/liq
				1003		-1+10	R404A+R407Cvap/liq+R134a
				1005		-1+10	R134a+R407C Vap. Liq.
				1015		-1+30	R744
				1017		-1+20	R410A
				1023	-30+290	-1+20	R410A+R22+R134a+R407C
				1031		-1+20	R407Cvap/liq+R410A
				1035		-1+20	R134a+R404A+R410A+R22
				1037		-1+20	R407Cvap/liq+R410A+R22
				1123		-1+20	R134a+R404A+R407C+R410A
				1137		-1+10	R417Avap/liq+R422Dvap/liq
				1143		-1+10	R290+R600a
				1227		-1+10	R422D
				2003		-1+10	R134a+R404A+R507
				2005		-1+10	R508B
				2009		-1+10	R22+R507+R407Fvap
				2011		-1+10	R22+R407Cvap/liq
				2013		-1+10	R407Avap/liq+R407Fvap/liq
				2015		-1+20	R32+R410A
				2019		-1+10	R134a+R507+R407F
				2025		-1+10	R134a+R404A+R407C+R407F
				2027		-1+10	R134a+R404A+R407F
				2029		-1+10	R449A
				2031		-1+10	R427
				2033		-1+10	R448A+R449A
				2035		-1+20	R32+R410A+R134a+R407C
				2037		-1+10	R452a+R404A+R134a
				2039		-1+10	R134a+R404A+R450A+R407F
				2041		-1+10	R448A+R449A+R407F
				2043		-1+10	R1234yf+R1234ze+R134a
				2045		-1+20	R32+R410A+R407C
				2049		-1+10	R452A+R513A
				2051		-1+20	R32
				2053		-1+10	R449A+R450A+R452A+R513A
				2057		-1+10	R448A+R449A+R450A+R452A
				2059		-1+20	R290
				2061		-1+10	R404A+R407F+R448A
				2063		-1+10	R448A+R449A+R452A+R404A
				5992	-30+140	-1+10	R12+R22+R502
				6060	-30+140	-1+10	R134a
				6070		-1+10	R12+R22+R502
				6125	-30+140	-1+10	R22+R134a
				6171		-1+10	R134a
				6186		-1+10	R22+R134a
				6685		-1+10	R134a+R404A
				6702	-30+140	-1+10	R134a+R404A
				7074		-1+10	R22+R134a+R404A
				7076	-30+140	-1+10	R22+R134a+R404A
				7126	-30+140	-1+10	R290+R600A
				7216		-1+10	R134a+R404A+R507+R407C
				7272		-1+10	R22+R134a+R407C
				7290		-1+10	R23
				7345		-1+10	R134a+R404A+R22+R407C
				7366		-1+10	R407Cvap/liq
				7496		-1+10	R507+R407Cvap/liq
				7540		-1+10	R134a+R22+R407Cvap/liq
				7552		-1+10	R134a+R22+R404A+R507
				8006		-1+20	R410A



High Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0601V14S				
		1/8" NPT	MA0601V18B				
Oil filled	Rear	1/4" SAE	MA0601A14S				
		1/8" NPT	MA0601A18B				
	Vertical	1/4" SAE	MA1001V14S				
		1/8" NPT	MA1001V18B				
	Rear	1/4" SAE	MA1001A14S				
		1/8" NPT	MA1001A18B				
				1002		-1+30	R507+R404A+R407Cvap/liq
				1004		-1+30	R404A+R407Cvap/liq+R134a
				1006		-1+30	R134a+R407Cvap/liq
				1018	-30+650	-1+45	R410A
				1024		-1+45	R410A+R22+R134a+R407C
				1029		-1+50	R744
				1032		-1+45	R407Cvap/liq+R410A
				1036		-1+45	R134a+R404A+R410A+R22
				1038		-1+45	R407Cvap/liq+R410A+R22
				1124		-1+45	R134a+R404A+R407C+R410A
				1138		-1+30	R417Avap/liq+R422Dvap/liq
				1144		-1+30	R290+R600a
				1228		-1+30	R422D
				2004		-1+30	R134a+R404A+R507
				2006		-1+30	R508B
				2010		-1+30	R22+R507+R407Fvap
				2012		-1+30	R22+R407Cvap/liq
				2014		-1+30	R407Avap/liq+R407Fvap/liq
				2016		-1+45	R32+R410A
				2020		-1+30	R134a+R507+R407F
				2026		-1+30	R134a+R404A+R407C+R407F
				2028		-1+30	R134a+R404A+R407F
				2030		-1+30	R449A
				2032		-1+30	R427
				2034		-1+30	R448A+R449A
				2036		-1+45	R32+R410A+R134a+R407C
				2038		-1+30	R452a+R404A+R134a
				2040		-1+30	R134a+R404A+R450A+R407F
				2042		-1+30	R448A+R449A+R407F
				2044		-1+30	R1234yf+R1234ze+R134a
				2046		-1+45	R32+R410A+R407C
				2050		-1+30	R452A+R513A
				2052		-1+45	R32
				2054		-1+30	R449A+R450A+R452A+R513A
				2058		-1+30	R448A+R449A+R450A+R452A
				2060		-1+30	R290
				2062		-1+30	R404A+R407F+R448A
				2064		-1+30	R448A+R449A+R452A+R404A
				5993	-30+400	-1+30	R12+R22+R502
				6061	-30+400	-1+30	R134a
				6071		-1+30	R12+R22+R502
				6126	-30+400	-1+30	R22+R134a
				6175		-1+30	R134a
				6188		-1+30	R22+R134a
				6686		-1+30	R134a+R404A
				6703	-30+400	-1+30	R134a+R404A
				7075		-1+30	R22+R134a+R404A
				7077	-30+400	-1+30	R22+R134a+R404A
				7127	-30+400	-1+30	R290+R600A
				7217		-1+30	R134a+R404A+R507+R407C
				7273		-1+30	R22+R134a+R407C
				7291		-1+30	R23
				7346		-1+30	R134a+R404A+R22+R407C
				7367		-1+30	R407Cvap/liq
				7497		-1+30	R507+R407C
				7541		-1+30	R134a+R22+R407Cvap/liq
				7553		-1+30	R134a+R22+R404A+R507
				8007		-1+45	R410A

High Pressure			Reference		Pressure		Refrigerant
Version	Outlet	Fitting	Case	Dial	psi	bar	
Oil filled	Vertical	1/4" SAE	MA0501V14S				
		1/8" NPT	MA0501V18B				
	Rear	1/4" SAE	MA0501A14S				
		1/8" NPT	MA0501A18B				
				0010		-1+10	
				6355		-1+16	
				0030		-1+30	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 60mm aluminium, oil filled, rear outlet, 1/4"SAE, -1+10bar / R134a+R404A+R407F, Case: MA1001A14S; Dial: 2027; Reference: MA1001A14S-2027

Blondelle Pressure Gauge, Ø 60, Composite



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually
- high quality composite casing
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Low Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0602V14S				
		1/8" NPT	MA0602V18B				
Oil filled	Rear	1/4" SAE	MA0602A14S				
		1/8" NPT	MA0602A18B				
	Vertical	1/4" SAE	MA1002V14S				
		1/8" NPT	MA1002V18B				
	Rear	1/4" SAE	MA1002A14S				
		1/8" NPT	MA1002A18B				
				1001		-1+10	R507+R404A+R407Cvap/liq
				1003		-1+10	R404A+R407Cvap/liq+R134a
				1005		-1+10	R134a+R407Cvap/liq
				1015		-1+30	R744
				1017	-30+290	-1+20	R410A
				1023		-1+20	R410A+R22+R134a+R407C
				1031		-1+20	R407Cvap/liq+R410A
				1035		-1+20	R134a+R404A+R410A+R22
				1037		-1+20	R407Cvap/liq+R410A+R22
				1123		-1+20	R134a+R404A+R407C+R410A
				1137		-1+10	R417Avap/liq+R422Dvap/liq
				1143		-1+10	R290+R600a
				1227		-1+10	R422D
				2003		-1+10	R134a+R404A+R507
				2005		-1+10	R508B
				2009		-1+10	R22+R507+R407Fvap
				2011		-1+10	R22+R407Cvap/liq
				2013		-1+10	R407Avap/liq+R407Fvap/liq
				2015		-1+20	R32+R410A
				2019		-1+10	R134a+R507+R407F
				2025		-1+10	R134a+R404A+R407C+R407F
				2027		-1+10	R134a+R404A+R407F
				2029		-1+10	R449A
				2031		-1+10	R427
				2033		-1+10	R448A+R449A
				2035		-1+20	R32+R410A+R134a+R407C
				2037		-1+10	R452a+R404A+R134a
				2039		-1+10	R134a+R404A+R450A+R407F
				2041		-1+10	R448A+R449A+R407F
				2043		-1+10	R1234yf+R1234ze+R134a
				2045		-1+20	R32+R410A+R407C
				2049		-1+10	R452A+R513A
				2051		-1+20	R32
				2053		-1+10	R449A+R450A+R452A+R513A
				2057		-1+10	R448A+R449A+R450A+R452A
				2059		-1+20	R290
				2061		-1+10	R404A+R407F+R448A
				2063		-1+10	R448A+R449A+R452A+R404A
				5992	-30+140	-1+10	R12+R22+R502
				6060	-30+140	-1+10	R134a
				6070		-1+10	R12+R22+R502
				6125	-30+140	-1+10	R22+R134a
				6171		-1+10	R134a
				6186		-1+10	R22+R134a
				6685		-1+10	R134a+R404A
				6702	-30+140	-1+10	R134a+R404A
				7074		-1+10	R22+R134a+R404A
				7076	-30+140	-1+10	R22+R134a+R404A
				7126	-30+140	-1+10	R290+R600A
				7216		-1+10	R134a+R404A+R507+R407C
				7272		-1+10	R22+R134a+R407C
				7290		-1+10	R23
				7345		-1+10	R134a+R404A+R22+R407C
				7366		-1+10	R407Cvap/liq
				7496		-1+10	R507+R407Cvap/liq
				7540		-1+10	R134a+R22+R407Cvap/liq
				7552		-1+10	R134a+R22+R404A+R507
				8006		-1+20	R410A



High Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0602V14S				
		1/8" NPT	MA0602V18B				
Oil filled	Rear	1/4" SAE	MA0602A14S				
		1/8" NPT	MA0602A18B				
	Vertical	1/4" SAE	MA1002V14S				
		1/8" NPT	MA1002V18B				
	Rear	1/4" SAE	MA1002A14S				
		1/8" NPT	MA1002A18B				
				1002		-1+30	R507+R404A+R407Cvap/liq
				1004		-1+30	R404A+R407Cvap/liq+R134a
				1006		-1+30	R134a+R407Cvap/liq
				1018	-30+650	-1+45	R410A
				1024		-1+45	R410A+R22+R134a+R407C
				1029		-1+50	R744
				1032		-1+45	R407Cvap/liq+R410A
				1036		-1+45	R134a+R404A+R410A+R22
				1038		-1+45	R407Cvap/liq+R410A+R22
				1124		-1+45	R134a+R404A+R407C+R410A
				1138		-1+30	R417Avap/liq+R422Dvap/liq
				1144		-1+30	R290+R600a
				1228		-1+30	R422D
				2004		-1+30	R134a+R404A+R507
				2006		-1+30	R508B
				2010		-1+30	R22+R507+R407Fvap
				2012		-1+30	R22+R407Cvap/liq
				2014		-1+30	R407Avap/liq+R407Fvap/liq
				2016		-1+45	R32+R410A
				2020		-1+30	R134a+R507+R407F
				2026		-1+30	R134a+R404A+R407C+R407F
				2028		-1+30	R134a+R404A+R407F
				2030		-1+30	R449A
				2032		-1+30	R427
				2034		-1+30	R448A+R449A
				2036		-1+45	R32+R410A+R134a+R407C
				2038		-1+30	R452a+R404A+R134a
				2040		-1+30	R134a+R404A+R450A+R407F
				2042		-1+30	R448A+R449A+R407F
				2044		-1+30	R1234yf+R1234ze+R134a
				2046		-1+45	R32+R410A+R407C
				2050		-1+30	R452A+R513A
				2052		-1+45	R32
				2054		-1+30	R449A+R450A+R452A+R513A
				2058		-1+30	R448A+R449A+R450A+R452A
				2060		-1+30	R290
				2062		-1+30	R404A+R407F+R448A
				2064		-1+30	R448A+R449A+R452A+R404A
				5993	-30+400	-1+30	R12+R22+R502
				6061	-30+400	-1+30	R134a
				6071		-1+30	R12+R22+R502
				6126	-30+400	-1+30	R22+R134a
				6175		-1+30	R134a
				6188		-1+30	R22+R134a
				6686		-1+30	R134a+R404A
				6703	-30+400	-1+30	R134a+R404A
				7075		-1+30	R22+R134a+R404A
				7077	-30+400	-1+30	R22+R134a+R404A
				7127	-30+400	-1+30	R290+R600A
				7217		-1+30	R134a+R404A+R507+R407C
				7273		-1+30	R22+R134a+R407C
				7291		-1+30	R23
				7346		-1+30	R134a+R404A+R22+R407C
				7367		-1+30	R407Cvap/liq
				7497		-1+30	R507+R407Cvap/liq
				7541		-1+30	R134a+R22+R407Cvap/liq
				7553		-1+30	R134a+R22+R404A+R507
				8007		-1+45	R410A

Reference			Pressure		Refrigerant
Version	Outlet	Fitting	Case	Dial	
Oil filled	Vertical	1/4" SAE	MA0502V14S		
		1/8" NPT	MA0502V18B		
	Rear	1/4" SAE	MA0502A14S		
		1/8" NPT	MA0502A18B		
				0010	-1+10
				6355	-1+16
				0030	-1+30

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 60mm composite, oil filled, rear outlet, 1/4"SAE, -1+10bar / R134a+R404A+R407F, Case: MA1002A14S; Dial: 2027; Reference: MA1002A14S-2027

Blondelle Pressure Gauge, Ø 80, Composite, LP



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually, Possibility to adjust the needle
- High quality composite casing
- Admissible overload: 200%
- Dry , oil filled or pulse-free
- Outlet: vertical or rear, fitting: 1/4" SAE or 1/8" NPT

Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure		Refrigerants
					psi	bar	
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
				1051		-1+10	R507+R404A+R407Cvap/liq
				1055		-1+10	R22+R417vap/liq
				1057	-30+400		R22+R410A (°F)
				1065		-1+30	R744
				1067		-1+10	R1270
				1073		-1+20	R410A+R22+R134a+R407C
				1085		-1+20	R134a+R404A+R410A+R22
				1087		-1+20	R407Cvap/liq+R410A+R22
				1099		-1+80	R744 (Transcritical)
				1155		-1+100	R744 (Transcritical)
				1173		-1+20	R410A+R407C+R404A+R134a
				1179		-1+10	R422D+R422A+R417A
				3001		-1+20	R422D
				3003	-30+1200	-1+10	R134a+R404A+R407F
				3005		-1+10	R22+R290+R600A
				3009		-1+80	R744 (Transcritical)
				3012		-1+10	R422D
				3013		-1+20	R32
				3023		-1+10	R404A+R407A+R407F
				3025		-1+10	R1234yf+R134a+R1234ze
				3027		-1+20	R134a+R410A+R407C+R407F
				3029		-1+10	R134a+R404A+R407C+R407F
				3031		-1+20	R407A
				3033		-1+10	R404A+R407A+R407F+R449A
				3037		-1+20	R449A
				3039		-1+10	R434a
				3041		-1+10	R134a+R404A+R407A+R407F
				3043		-1+20	R32+R410A
				3045		-1+10	R404A+R508B
				3049		-1+10	R1234yf+R1234ze
				3053		-1+10	R290+R134a+R407C+R404A
				3055		-1+20	R448A+R449A
				3057		-1+10	R134a+R404A+R22+R449A
				3059		-1+20	R32+R410A+R134a+R407C
				3061		-1+20	R452a
				3063		-1+10	R134a+R404A+R407F+R449A
				3067		-1+10	R404A+R134a+R449A+R407C
				3069		-1+10	R448A+R449A+R407F
				3071		-1+10	R134a+R404A+R407F+R407C
				3073		-1+10	R452a+R404A+R134a
				3077		-1+20	R32+R410A+R407C+R404A
				3079		-1+20	R32+R410A+R407C
				3081		-1+10	R236fa+R227ea
				3083	-30+435	-1+30	R744
				3085		-1+20	R1234yf+R1234ze+R410A+R134a
				3087		-1+20	R448A+R449A+R450A+R407F
				3089		-1+20	R134a+R404A+R507A+R407C
				3091		-1+10	R448A+R449A+R450A+R407F
				3093		-1+10	R448A+R449A+R450A+R452A
				3095		-1+10	R449Avap/liq+R448Avap/liq



Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure		Refrigerants
					psi	bar	
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
				3097		-1+10	R404A+R449A+R452A+R134a
				3099		-1+10	R449A+R452+R513+1234yf
				3101		-1+10	R449A+R450A+R452A+R513A
				3103		-1+20	R449Avap/liq+R448Avap/liq
				3105		-1+20	R407A+R449A+R410A
				3107		-1+10	R448A+R449A+R452A+R455A
				3109		-1+20	R410A+R134a+R407C
				3111		-1+20	R32+R410A+R407C
				3113		-1+10	R404A+R448A+R449A+R134a
				3115		-1+20	R449A+R450A+R452A+R513A
				3117		-1+10	R1234yf+R134a+R407C+R513A
				3119		-1+20	R404A+R452A+R134a+R410A
				3121	-30+140	-1+20	R32+R290+R600a
				3123		-1+20	R410A+R404A+R448A+R134a
				3125		-1+10	R442A+R134a+R404A
				3127		-1+10	R449A
				3129	-30+140	-1+10	R1234yf+R134a+R513A
				4090		-1+10	R409A
				4092		-1+10	R134a+R22+R409Avap/liq
				5941	-30+140	-1+10	R12+R22+R502
				6072		-1+10	R12+R22+R502
				6127	-30+140	-1+10	R22+R134a
				6172		-1+10	R134a
				6187		-1+10	R22+R134a
				6607	-30+140	-1+10	R134a
				6630		-1+10	R134a+R404A
				6704	-30+140	-1+10	R134a+R404A
				7130	-30+140	-1+10	R290+R600A
				7279		-1+10	R23
				7309		-1+10	R134a+R404A+R507+R407C
				7312		-1+10	R134a+R22+R404A
				7314	-30+140	-1+10	R134a+R22+R404A
				7341		-1+10	R134a+R404A+R22+R407C
				7524		-1+20	R410A
				7526		-1+10	R134a+R404A+R407Cvap/liq
				7528		-1+5	R600A+Care 30vap/liq
				7530		-1+10	R290+Care 50vap/liq
				7542		-1+10	R134a+R22+R407Cvap/liq
				7554		-1+10	R134a+R22+R404A+R507
				7734		-1+10	R22+R407Cvap/liq
				7805	-30+145		R22+R134a+R404A (°F)
				8101	-30+145		R12+R22+R502 (°F)
				8137	-30+400		R410A (°F)
				8264		-1+10	R134a+R407Cvap/liq

Version	Outlet	Fitting	Reference Case	Dial	Pressure		Refrigerants
					psi	bar	
Oil filled	Vertical	1/4" SAE	MA0503V14S				
		1/8" NPT	MA0503V18B				
		1/4" SAE	MA0503A14S				
	Rear	1/8" NPT	MA0503A18B				
				6364		-1+16	
				8010		-1+10	
				3000		0+30	
				8030		-1+30	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil-filled, vertical outlet, 1/8"NPT, -1+45bar / R407C+R410A+R22: Case: MA1003V18B; Dial: 1088; Reference: MA1003V18B-1088

Blondelle Pressure Gauge, Ø 80, Composite, HP



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually, Possibility to adjust the needle
- High quality composite casing
- Admissible overload: 200%
- Dry , oil filled or pulse-free
- Outlet: vertical or rear, fitting: 1/4" SAE or 1/8" NPT

High Pressure Version	Outlet	Fitting	Reference		Pressure		Refrigerants
			Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
				1052		-1+30	R507+R404A+R407Cvap/liq
				1056		-1+30	R22+R417Cvap/liq
				1058			R22+R410A (°F)
				1068		-1+30	R1270
				1072		-1+50	R744
				1074		-1+45	R410A+R22+R134a+R407C
				1086		-1+45	R134a+R404A+R410A+R22
				1088		-1+45	R407Cvap/liq+R410A+R22
				1100		-1+160	R744 (Transcritical)
				1174		-1+45	R410A+R407C+R404A+R134a
				1180		-1+30	R422D+R422A+R417A
				1214		-1+60	R774
				3002		-1+30	R422D
				3004		-1+30	R134a+R404A+R407F
				3006		-1+30	R22+R290+R600A
				3010		-1+160	R744 (Transcritical)
				3014		-1+45	R32
				3024		-1+30	R404A+R407A+R407F
				3026		-1+30	R1234yf+R134a+R1234ze
				3028		-1+45	R134a+R410A+R407C+R407F
				3030		-1+30	R134a+R404A+R407C+R407F
				3032		-1+30	R407A
				3034		-1+30	R404A+R407A+R407F+R449A
				3035		-1+200	R744 (Transcritical)
				3038		-1+30	R449A
				3040		-1+30	R434a
				3042		-1+30	R134a+R404A+R407A+R407F
				3044		-1+45	R32+R410A
				3046		-1+30	R404A+R508B
				3050		-1+30	R1234yf+R1234ze
				3054		-1+30	R290+R134a+R407C+R404A
				3056		-1+30	R448A+R449A
				3058		-1+30	R134a+R404A+R22+R449A
				3060		-1+45	R32+R410A+R134a+R407C
				3062		-1+30	R452a
				3064		-1+30	R134a+R404A+R407F+R449A
				3068		-1+30	R404A+R134a+R449A+R407C
				3070		-1+30	R448A+R449A+R407F
				3072		-1+30	R134a+R404A+R407F+R407C
				3074		-1+30	R452a+R404A+R134a
				3078		-1+45	R32+R410A+R407C+R404A
				3080		-1+45	R32+R410A+R407C
				3082		-1+30	R236fa+R227ea
				3084		-1+50	R744
				3086		-1+30	R1234yf+R1234ze+R410A+R134a
				3088		-1+45	R448A+R449A+R450A+R407F
				3090		-1+45	R134a+R404A+R507A+R407C
				3092		-1+30	R448A+R449A+R450A+R407F
				3094		-1+30	R448A+R449A+R450A+R452A
				3096		-1+30	R449Avap/liq+R448Avap/liq



High Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
				3098		-1+30	R404A+R449A+R452A+R134a
				3100		-1+30	R449A+R452+R513+1234yf
				3102		-1+30	R449A+R450A+R452A+R513A
				3104		-1+45	R449Avap/liq+R448Avap/liq
				3106		-1+45	R407A+R449A+R410A
				3108		-1+30	R448A+R449A+R452A+R455A
				3110		-1+45	R410A+R134a+R407C
				3112		-1+45	R32+R410A+R407C
				3114		-1+30	R404A+R448A+R449A+R134a
				3118		-1+30	R1234yf+R134a+R407C+R513A
				3120		-1+45	R404A+R452A+R134a+R410A
				3122	-30+650	-1+45	R32+R290+R600a
				3124		-1+45	R410A+R404A+R448A+R134a
				3126		-1+30	R442A+R134a+R404A
				3130	-30+435	-1+30	R1234yf+R134a+R513A
				4091		-1+30	R409Avap/liq
				4093		-1+30	R134a+R22+R409Avap/liq
				5942	-30+435	-1+30	R12+R22+R502
				6073		-1+30	R12+R22+R502
				6128	-30+435	-1+30	R22+R134a
				6176		-1+30	R134a
				6189		-1+30	R22+R134a
				6608	-30+435	-1+30	R134a
				6631		-1+30	R134a+R404A
				6705	-30+435	-1+30	R134a+R404A
				7131	-30+435	-1+30	R290+R600A
				7280		-1+30	R23
				7310		-1+30	R134a+R404A+R507+R407C
				7313		-1+30	R134a+R22+R404A
				7315	-30+435	-1+30	R134a+R22+R404A
				7342		-1+30	R134a+R404A+R22+R407C
				7527		-1+30	R134a+R404A+R407Cvap/liq
				7529		-1+16	R600A+Care30vap/liq
				7531		-1+30	R290+Care50vap/liq
				7543		-1+30	R134a+R22+R407Cvap/liq
				7555		-1+30	R134a+R22+R404A+R507
				7735		-1+30	R22+R407Cvap/liq
				7806	-30+435		R22+R13a+R404A (°F)
				7808		-1+45	R410A
				8102	-30+435		R12+R22+R502 (°F)
				8138	-30+800		R410A (°F)
				8265		-1+30	R134a+R407Cvap/liq

High Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Oil filled	Vertical	1/4" SAE	MA0503V14S				
		1/8" NPT	MA0503V18B				
		1/4" SAE	MA0503A14S				
	Rear	1/8" NPT	MA0503A18B				
				6364		-1+16	
				8010		-1+10	
				3000		0+30	
				8030		-1+30	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil-filled, vertical outlet, 1/8"NPT, -1+45bar / R407C+R410A+R22: Case: MA1003V18B; Dial: 1088; Reference: MA1003V18B-1088

Blondelle Pressure Gauge, Ø 100, Aluminium

Exceptional measurement and reading accuracy; up to 6 refrigerants on 1 dial.



- All combinations of refrigerants possible, up to 6 refrigerants on 1 dial.
- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy.
- Each gauge calibrated individually
- Aluminium case
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Low Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0605V14S				
		1/8" NPT	MA0605V18B				
	Rear	1/4" SAE	MA0605A14S				
		1/8" NPT	MA0605A18B				
Oil filled	Vertical	1/4" SAE	MA1005V14S				
		1/8" NPT	MA1005V18B				
	Rear	1/4" SAE	MA1005A14S				
		1/8" NPT	MA1005A18B				
Pulse-free	Vertical	1/4" SAE	MA0701V14S				
		1/8" NPT	MA0701V18B				
	Rear	1/4" SAE	MA0701A14S				
		1/8" NPT	MA0701A18B				
				1077		-1+20	R22+R134a+R404A+R407Cvap/liq+R410A
				1083		-1+10	R134a+R404A+R22+R407Cvap/liq
				1095		-1+10	R22+R404A
				1097		-1+6	R170
				1151		-1+30	R744 (Subcritical)
				1153		-1+20	R410A
				1177		-1+80	R744 (Transcritical)
				1184		-1+100	R744 (Transcritical)
				1185		-1+10	R134a+R507
				1189		-1+20	R410A+R407Cvap/liq+R404A+R134a+R507
				1191		-1+10	R227ea
				2622		-1+10	R12 + R22 + R502
				4001	-30+1200	-1+80	R744 (Transcritical)
				4003		-1+10	R134a+R22+R404A+R507
				4007		-1+10	R404A+R134a+R407C+R407F
				4011		-1+10	R134a+R404A+R407CvapR407Fvap
				4013		-1+10	R422Dvap/liq
				4017		-1+10	R407Avap/liq
				4019		-1+140	R744 (Transcritical)
				4021		-1+20	R434a
				4025		-1+10	R449Avap/liq
				4027		-1+10	R507
				4029		-1+10	R448Avap/liq+R449Avap/liq
				4033		-1+20	R407A+R449A+R410A
				4035		-1+10	R407C+R407A+R407F
				4037		-1+20	R407A+R407F+R448A+R449A+R410A+R32
				5785	-30+140	-1+10	R134a
				6592		-1+10	R22+R134a
				6688		-1+10	R134a
				6696		-1+10	R134a+R404A
				7098	-30+140	-1+10	R290+R600A
				7218		-1+10	R134a+R404A+R507+R407Cvap/liq
				7360		-1+10	R407Cvap/liq
				7474		-1+10	R23
				7533		-1+10	R407Cvap/liq+R507



High Pressure			Reference		Pressure		Refrigerants		
Version	Outlet	Fitting	Case	Dial	psi	bar			
Dry	Vertical	1/4" SAE	MA0605V14S						
		1/8" NPT	MA0605V18B						
Rear	1/4" SAE	MA0605A14S							
	1/8" NPT	MA0605A18B							
Oil filled	Vertical	1/4" SAE	MA1005V14S						
		1/8" NPT	MA1005V18B						
Rear	1/4" SAE	MA1005A14S							
	1/8" NPT	MA1005A18B							
Pulse-free	Vertical	1/4" SAE	MA0701V14S						
		1/8" NPT	MA0701V18B						
	Rear	1/4" SAE	MA0701A14S						
		1/8" NPT	MA0701A18B						
			1078					-1+45	R22+R134a+R404A+R407Cvap/liq+R410A
			1084					-1+30	R134a+R404A+R22+R407Cvap/liq
			1096					-1+30	R22+R404A
			1154					-1+45	R410A
			1178					-1+160	R744 (Transcritical)
			1183					-1+50	R744 (Subcritical)
		1186	-1+30					R134a+R507	
		1190	-1+45					R410A+R407Cvap/liq+R404A+R134a+R507	
		1192	-1+30					R227ea	
		2623	-1+30					R12 + R22 + R502	
		4002	-1+160					R744 (Transcritical)	
		4004	-1+30					R134a+R22+R404A+R507	
		4008	-1+30	R404A+R134a+R407C+R407F					
		4012	-1+30	R134a+R404A+R407CvapR407Fvap					
		4014	-1+30	R422Dvap/liq					
		4015	-1+200	R744 (Transcritical)					
		4018	-1+30	R407A					
		4020	-1+170	R744 (Transcritical)					
		4022	-1+30	R434a					
		4026	-1+30	R449Avap/liq					
		4028	-1+30	R507					
		4030	-1+30	R448Avap/liq+R449Avap/liq					
		4034	-1+45	R407A+R449A+R410A					
		4036	-1+30	R407C+R407A+R407F					
		4038	-1+45	R407A+R407F+R448A+R449A+R410A+R32					
		5786	-1+30	R134a					
		6593	-1+30	R22+R134a					
		6689	-1+30	R134a					
		6697	-1+30	R134a+R404A					
		7099	-1+30	R290+R600A					
		7219	-1+30	R134a+R404A+R507+R407Cvap/liq					
		7361	-1+30	R407Cvap/liq					
		7475	-1+30	R23					
		7534	-1+30	R407Cvap/liq+R507					

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants	
Oil filled	Vertical	1/4" SAE	MA0505V14S					
		1/8" NPT	MA0505V18B					
		1/4" SAE	MA0505A14S					
	Rear	1/8" NPT	MA0505A18B					
			1098					0+50
			1195					-1+30
			1229					0+15
			4005					0+80
			4006					0+160
			4009					0+30
			4013					-1+10
			4015					-1+200
			4016					0+180
			4023					0+2,5
			7371					-1+20

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 100mm aluminium, pulse-free, rear outlet, 1/8"NPT, -1+45bar / R410A Case: MA0701A18B; Dial: 1154; Reference: MA0701A18B-1154

Blondelle Pressure Gauge, Ø 100, Composite

Exceptional measurement and reading accuracy; up to 6 refrigerants on 1 dial.



- All combinations of refrigerants possible, up to 6 refrigerants on 1 dial.
- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy.
- Each gauge calibrated individually
- Composite case
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Low Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0607V14S				
		1/8" NPT	MA0607V18B				
	Rear	1/4" SAE	MA0607A14S				
		1/8" NPT	MA0607A18B				
Oil filled	Vertical	1/4" SAE	MA1007V14S				
		1/8" NPT	MA1007V18B				
	Rear	1/4" SAE	MA1007A14S				
		1/8" NPT	MA1007A18B				
Pulse-free	Vertical	1/4" SAE	MA0703V14S				
		1/8" NPT	MA0703V18B				
	Rear	1/4" SAE	MA0703A14S				
		1/8" NPT	MA0703A18B				
				1077		-1+20	R22+R134a+R404A+R407Cvap/liq+R410A
				1083		-1+10	R134a+R404A+R22+R407Cvap/liq
				1095		-1+10	R22+R404A
				1097		-1+6	R170
				1151		-1+30	R744 (Subcritical)
				1153		-1+20	R410A
				1177		-1+80	R744 (Transcritical)
				1184		-1+100	R744 (Transcritical)
				1185		-1+10	R134a+R507
				1189		-1+20	R410A+R407Cvap/liq+R404A+R134a+R507
				1191		-1+10	R227ea
				2622		-1+10	R12 + R22 + R502
				4001	-30+1200	-1+80	R744 (Transcritical)
				4003		-1+10	R134a+R22+R404A+R507
				4007		-1+10	R404A+R134a+R407C+R407F
				4011		-1+10	R134a+R404A+R407CvapR407Fvap
				4013		-1+10	R422Dvap/liq
				4017		-1+10	R407Avap/liq
				4019		-1+140	R744 (Transcritical)
				4021		-1+20	R434a
				4025		-1+10	R449Avap/liq
				4027		-1+10	R507
				4029		-1+10	R448Avap/liq+R449Avap/liq
				4033		-1+20	R407A+R449A+R410A
				4035		-1+10	R407C+R407A+R407F
				4037		-1+20	R407A+R407F+R448A+R449A+R410A+R32
				5785	-30+140	-1+10	R134a
				6592		-1+10	R22+R134a
				6688		-1+10	R134a
				6696		-1+10	R134a+R404A
				7098	-30+140	-1+10	R290+R600A
				7218		-1+10	R134a+R404A+R507+R407Cvap/liq
				7360		-1+10	R407Cvap/liq
				7474		-1+10	R23
				7533		-1+10	R407Cvap/liq+R507



High Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0607V14S				
		1/8" NPT	MA0607V18B				
	Rear	1/4" SAE	MA0607A14S				
		1/8" NPT	MA0607A18B				
Oil filled	Vertical	1/4" SAE	MA1007V14S				
		1/8" NPT	MA1007V18B				
	Rear	1/4" SAE	MA1007A14S				
		1/8" NPT	MA1007A18B				
Pulse-free	Vertical	1/4" SAE	MA0703V14S				
		1/8" NPT	MA0703V18B				
	Rear	1/4" SAE	MA0703A14S				
		1/8" NPT	MA0703A18B				
				1078		-1+45	R22+R134a+R404A+R407Cvap/liq+R410A
				1084		-1+30	R134a+R404A+R22+R407Cvap/liq
				1096		-1+30	R22+R404A
				1154		-1+45	R410A
				1178		-1+160	R744 (Transcritical)
				1183		-1+50	R744 (Subcritical)
				1186		-1+30	R134a+R507
				1190		-1+45	R410A+R407Cvap/liq+R404A+R134a+R507
				1192		-1+30	R227ea
				2623		-1+30	R12 + R22 + R502
				4002	-30+2300	-1+160	R744 (Transcritical)
				4004		-1+30	R134a+R22+R404A+R507
				4008		-1+30	R404A+R134a+R407C+R407F
				4012		-1+30	R134a+R404A+R407CvapR407Fvap
				4014		-1+30	R422Dvap/liq
				4015		-1+200	R744 (Transcritical)
				4018		-1+30	R407A
				4020		-1+170	R744 (Transcritical)
				4022		-1+30	R434a
				4026		-1+30	R449Avap/liq
				4028		-1+30	R507
				4030		-1+30	R448Avap/liq+R449Avap/liq
				4034		-1+45	R407A+R449A+R410A
				4036		-1+30	R407C+R407A+R407F
				4038		-1+45	R407A+R407F+R448A+R449A+R410A+R32
				5786	-30+400	-1+30	R134a
				6593		-1+30	R22+R134a
				6689		-1+30	R134a
				6697		-1+30	R134a+R404A
				7099	-30+400	-1+30	R290+R600A
				7219		-1+30	R134a+R404A+R507+R407Cvap/liq
				7361		-1+30	R407Cvap/liq
				7475		-1+30	R23
				7534		-1+30	R407Cvap/liq+R507

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Oil filled	Vertical	1/4" SAE	MA0507V14S				
		1/8" NPT	MA0507V18B				
	Rear	1/4" SAE	MA0507A14S				
		1/8" NPT	MA0507A18B				
				1098		0+50	
				1195		-1+30	
				1229		0+15	
				4005		0+80	
				4006		0+160	
				4009		0+30	
				4013		-1+10	
				4015		-1+200	
				4016		0+180	
				4023		0+2,5	
				7371		-1+20	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 100mm composite, pulse-free, rear outlet, 1/8"NPT, -1+45bar / R410A. Case: MA0703A18B; Dial: 1154; Reference: MA0703A18B-1154

Blondelle NH3 Pressure Gauge

Gauge developed for use on ammonia systems



- Class 1 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- Ammonia resistant design
- All parts in contact with ammonia made of stainless steel 316L
- Ø 80 high quality composite casing or Ø 100 aluminium case
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" GAZ or 1/2" GAZ
- Each gauge calibrated individually
- Admissible overload: 200%
- Possibility to adjust the needle

D80 Composite case			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" GAZ	MA0604V14G				
		1/2" GAZ	MA0604V12G				
	Rear	1/4" GAZ	MA0604A14G				
		1/2" GAZ	MA0604A12G				
Oil filled	Vertical	1/4" GAZ	MA1004V14G				
		1/2" GAZ	MA1004V12G				
	Rear	1/4" GAZ	MA1004A14G				
		1/2" GAZ	MA1004A12G				
Pulse-free	Vertical	1/4" GAZ	MA0902V14G				
		1/2" GAZ	MA0902V12G				
	Rear	1/4" GAZ	MA0902A14G				
		1/2" GAZ	MA0902A12G				
				1161		-1+10	R717
				1162		-1+30	R717
				3017		-1+10	R717+R723
				3018		-1+30	R717+R723

D100 Aluminium case			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" GAZ	MA0606V14G				
		1/2" GAZ	MA0606V12G				
	Rear	1/4" GAZ	MA0606A14G				
		1/2" GAZ	MA0606A12G				
Oil filled	Vertical	1/4" GAZ	MA1006V14G				
		1/2" GAZ	MA1006V12G				
	Rear	1/4" GAZ	MA1006A14G				
		1/2" GAZ	MA1006A12G				
Pulse-free	Vertical	1/4" GAZ	MA0704V14G				
		1/2" GAZ	MA0704V12G				
	Rear	1/4" GAZ	MA0704A14G				
		1/2" GAZ	MA0704A12G				
				1261	-30+140	-1+10	R717
				1262	-30+400	-1+30	R717

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil filled, rear outlet, 1/4"GAZ, -1+10bar / NH3. Case: MA1004A14G; Dial: 1161; Reference MA1004A14G-1161

Blondelle Accessories for Aluminium Gauges



Gauge fixations



Fastening mount	
Ø	Reference
60 mm	AC0306-5269
100 mm	AC0306-192

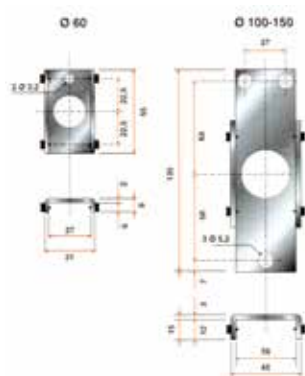
Fastening clamp	
Ø	Reference
60 mm	AC0305-5400
100 mm	AC0305-2112

Collar*	
Ø	Reference
60 mm	AC0302-185.30
100 mm	AC0302-190.30

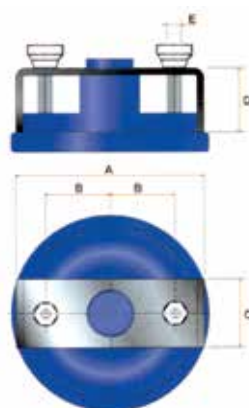
* only for dry versions

Dimensions

Fastening mount



Fastening clamp



Dimensions in mm				
Ø	60	100	150	
A	72	114	178	
B	24	40	60	
C	33	40	40	
D	28,5	37	48	
E	M4	M6	M6	

Collar



Dimensions in mm				
Ø	60	100	150	
A	80	122	180	
B	88	130	189	
C	72	114	171	
D	4	4,5	4,5	
E	10	10,5	10,5	
F	42,5	54	52	

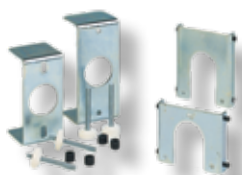
Gauge protections



Anti-impact protection		
Ø	Color	Reference
60 mm	Red	AC0308-1259.02
	Blue	AC0308-1259.03
100 mm	Red	AC0308-1206.02
	Blue	AC0308-1206.03

Blondelle Accessories for Composite Gauges

Gauge fixations



Fastening mount	
Ø	Reference
60 mm	AC0306-6369
80 mm	AC0306-6370
100 mm	AC0306-6371

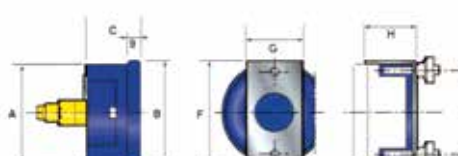
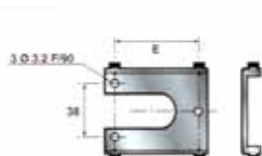
Fastening clamp	
Ø	Reference
60 mm	AC0305-5400
80 mm	AC0305-6134
100 mm	AC0305-2112

Dimensions

Fastening mount



Fastening clamp



Dimensions in mm		
Ø	60	80
A	66	79
B	71	88
C	35	35
D	9	11
E	36	56
F	70	88
G	35	40
H	34	33
I	57	70

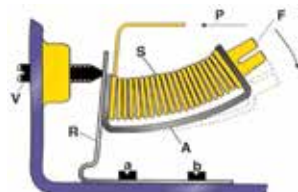
Gauge protections



Anti-impact protection		
Ø	Color	Reference
60 mm	Red	AC0308-6123.02
	Yellow	AC0308-6123.04
	Blue	AC0308-6123.03
80 mm	Red	AC0308-6124.02
	Yellow	AC0308-6124.04
	Blue	AC0308-6124.03

Blondelle 'A LAME ACIER' Principle

Pressure-sensitive element formed of a bellow and a hardened stabilised blade.



- Class 1 accuracy: 1% of the end of the scale.
- Admissible overload: 200% for pressure gauge
- Accidental pressure: 50% for vacuum gauge
- Each instrument is calibrated individually.
- Perfect impression of dials through tampography provides you with high reading sensitivity.
- Light alloy casing or very high resistance injection moulded composite
- Operation temperature: -40°C +70°C
- Your logo can appear on the dials
- Endless combinations of refrigerants

- A = Steel plate (Lame Acier)
- S = Metal bellow
- R = Fixing square of motor element
- F = Kinematics articulation fork
- V = 0-screw
- P = Fluid inlet

- The "A Lame Acier®" pressure gauge comprises a pressure-sensitive element formed of a metal bellow and a steel plate.
- The steel plate A describes a generating line proportional to the pressure existing inside the bellow S (bellow situated between the two arched ends of the steel plate).
- One of the ends of the steel plate is fixed to bracket R which itself is fixed to the housing at a-b.
- A fork F fixed to the other end drives the kinematics, thus rotating the needle.
- The adjusting screw V - accessible from the outside - enables adjusting the position of the needle.



BLONDELLE MANIFOLDS



Blondelle 1 Lane Manifold



- Unique spindle valve, always tight without effort
- Class 1, 'A Lame Acier' gauge
- Ø 60 or Ø 80
- Dry, oil filled or pulse-free (only Ø 80)
- All combinations of refrigerants possible
- Low Pressure or High Pressure gauge fitted
- Available with or without appropriate charging hoses

Supplied with: 2 red/blue charging hoses, length 1 m; option ball valve. R410A: High Resistance hoses : one hose with two 1/4" SAE fittings +1 charging line with one 5/16" and one 1/4" SAE fitting.

Gauges			Reference			Scales		
Pressure	Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Low pressure	60 mm	Dry	FR0801BP					
	80 mm	Oil filled	FR1001BP					
		Dry	FR0802BP					
		Oil filled	FR1002BP					
High pressure	60 mm	Pulse-free	FR0901BP					
		Dry	FR0801HP					
		Oil filled	FR1001HP					
	80 mm	Dry	FR0802HP					
		Oil filled	FR1002HP					
		Pulse-free	FR0901HP					
			E01			x	x	R12+R22+R502
			E02			x	x	R134a+R404A
			E03			x		R22+R134a+R404A
			E04			x		R134a+R404A+R507+R407C
			E05			x	x	R290+R600
			E06			x		R22+R134a+R404A+R507
			E07			x		R134a+R407Cvap/liq
			E08			x		R22+R134a+R404A+R407C
			E09			x		R134a+R22+R409Avap/liq
			E10			x		R22+R417Avap/liq
			E11			x		R134a+R404A+R407Cvap/liq
			E12			x		R134a+R22+R407Cvap/liq
			E13			x		R507+R407Cvap/liq
			E15			x		R410A
			E16			x		R1270
			E17			x		R410A+R22+R134a+R407C
			E20			x		R744 (-1+30 Bar, -1+50 Bar)*
			E21			x		R410A+R22+R404A+R134a
			E23			x		R23
			E24			x		R22+R410A+R407Cvap/liq
			E27			x		R410A+R407C+R404A+R134a
			E28			x		R422Dvap/liq+R422Avap/liq+R417Avap/liq
			E33			x		R744 (-1+30 Bar, -1+60 Bar)*
			E34			x	x	R744 (-1+30 Bar/435psi, -1+50 Bar/725psi)*
			E38			x		R134a+R1234yf+R1234ze
			E40			x		R227ea
			E42			x	x	R22+R290+R600A
			E43			x		R134a+R404A+R407F
			E44			x		R32
			E46			x		R407A+R407F+R404A
			E47			x		R404A+R407A+R407F+R449A
			E48			x		R134a+R404A+R407A+R407F
			E49			x		R32+R410A
			E50			x		R290+R134a+R407C+R404A
			E51			x		R404A+R508
			E52			x		R32+R410A+R134a+R407C
			E53			x		R134a+R404A+R22+R449A
			E54			x		R452a
			E55			x		R134a+R404A+R407F+R449A
			E56			x		R134a+R404A+R449A+R407C
			E57			x		R134a+R404A+R407F+R407C
			E58			x		R452a+R404A+R134a
			E60			x		R32+R410A+R407C
			E61			x		R448A+R449A+R407F
			E62			x		R23+R507
			E63			x		R448A+R449A+R450A+R452A
			E64			x		R449Avap/liq+R448Avap/liq
			E65			x		R449A+R452+R513+1234yf
			E66			x		R404A+R449A+R452A+R134a
			E67			x		R407A+R449A+R410A
			E68			x		R448A+R449A+R452A+R455A
			E69			x		R410A+R134a+R407Cvap/liq
			E70			x		R404A+R448A+R449A+R134a
			E71			x		R404A+R452A+R134a+R410A
			E72			x		R410A+R404A+R448A+R134a
			E73			x		R442A+R134a+R404A
			E74			x		R32+R134a+R407C+R404A
					V	Option: Charging hoses length 1m with ball valve		

V

Option: Charging hoses length 1m with ball valve

* For transcritical references look at page 38

Bare body	Reference
Low Pressure	FR0101BP
High Pressure	FR0101HP

E.g.: 1 lane aluminium manifold LP, charging hoses, 80mm gauge, oil filled, refrigerants: R134a+R404A:
Manifold: FR1002BP; Refrigerants: E02; Reference: FR1002BP-E02



Blondelle 2 Lane Manifold



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' gauges
- Ø 60 or Ø 80
- Dry, oil filled or pulse-free (only Ø 80)
- All combinations of refrigerants possible
- Sight glass and hook (also available without sightglass)
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1 m with two 1/4" SAE fittings, optional ball valves. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side.

Material	Other specs	Gauges		Reference			Scales				
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants		
	Complete case	60 mm	Dry	FR1103							
		80 mm	Oil filled	FR1303							
			Dry	FR1104							
			Oil filled	FR1304							
			Oil filled	FR1305							
			Pulse-free	FR1202							
			Dry	FR0203							
	+ no sight glass		60 mm	Oil filled	FR0403						
	Without case & hoses		80 mm	Dry	FR0204						
				Oil filled	FR0404						
				Pulse-free	FR0302						
					E01			x	x	R12+R22+R502	
					E02			x	x	R134a+R404A	
					E03			x		R22+R134a+R404A	
					E04			x		R134a+R404A+R507+R407C	
					E05			x	x	R290+R600	
					E06			x		R22+R134a+R404A+R507	
					E07			x		R134a+R407Cvap/liq	
					E08			x		R22+R134a+R404A+R407C	
					E09			x		R134a+R22+R409Avap/liq	
					E10			x		R22+R417Avap/liq	
					E11			x		R134a+R404A+R407Cvap/liq	
					E12			x		R134a+R22+R407Cvap/liq	
					E13			x		R507+R407Cvap/liq	
					E15			x		R410A	
					E16			x		R1270	
					E17			x		R410A+R22+R134a+R407C	
					E20			x		R744 (-1+30 Bar, -1+50 Bar)*	
					E21			x		R410A+R22+R404A+R134a	
					E23			x		R23	
					E24			x		R407Cvap/liq+R410A+R22	
					E27			x		R410A+R407C+R404A+R134a	
					E28			x		R422Dvap/liq+R422Avap/liq+R417Avap/liq	
					E33			x		R744 (-1+30 Bar, -1+60 Bar)*	
					E34			x	x	R744 (-1+30 Bar/435psi, -1+50 Bar/725psi) *	
					E38			x		R134a+R1234yf+R1234ze	
					E40			x		R227ea	
					E42			x	x	R22+R290+R600A	
					E43			x		R134a+R404A+R407F	
					E44			x		R32	
					E46			x		R407A+R407F+R404A	
					E47			x		R404A+R407A+R407F+R449A	
					E48			x		R134a+R404A+R407A+R407F	
					E49			x		R32+R410A	
					E50			x		R290+R134a+R407C+R404A	
					E51			x		R404A+R508	
					E52			x		R32+R410A+R134a+R407C	
					E53			x		R134a+R404A+R22+R449A	
					E54			x		R452a	
					E55			x		R134a+R404A+R407F+R449A	
					E56			x		R134a+R404A+R449A+R407C	
					E57			x		R134a+R404A+R407F+R407C	
					E58			x		R452a+R404A+R134a	
					E60			x		R32+R410A+R407C	
					E61			x		R448A+R449A+R407F	
					E62			x		R23+R507	
					E63			x		R448A+R449A+R450A+R452A	
					E64			x		R449Avap/liq+R448Avap/liq	
					E65			x		R449A+R452+R513+1234yf	
					E66			x		R404A+R449A+R452A+R134a	
					E67			x		R407A+R449A+R410A	
					E68			x		R448A+R449A+R452A+R455A	
					E69			x		R410A+R134a+R407Cvap/liq	
					E70			x		R404A+R448A+R449A+R134a	
					E71			x		R404A+R452A+R134a+R410A	
					E72			x		R410A+R404A+R448A+R134a	
					E73			x		R442A+R134a+R404A	
					E74			x		R32+R134a+R407C+R404A	
		V							Option: Charging hoses length 1m with ball valve		
		Bare body		Reference		* For transcritical references look at page 38					
		Aluminium		FR0102							

Blondelle 4 Lane Manifold

4 valves



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier', Ø 80 gauges
- 4 lanes - 4 valves
- All combinations of refrigerants possible
- Dry, oil filled or pulse-free
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1,5 m with 1/4" SAE fitting, optional ball valves and 1 yellow charging line, length 1 m with 3/8" fitting. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side.

Manifold		Gauges	Reference			Scales	
Valves	Other specs	Type	Manifold	Dial	Option	bar	psi
4 valves	Complete case	Dry Oil filled Pulse-free	FR1108-4R FR1308-4R FR1204-4R				
	Without case & hoses	Dry Oil filled Pulse-free	FR0208-4R FR0408-4R FR0304-4R				
Special vacuum	Vacuum gauge with valve	Oil filled	FR1310				
				E01		x	x
				E02		x	x
				E03		x	
				E04		x	
				E05		x	x
				E06		x	
				E07		x	
				E08		x	
				E09		x	
				E10		x	
				E11		x	
				E12		x	
				E13		x	
				E15		x	
				E16		x	
				E17		x	
				E20		x	
				E21		x	
				E23		x	
				E24		x	
				E27		x	
				E28		x	
				E33		x	
				E34		x	x
				E38		x	
				E40		x	
				E42		x	x
				E43		x	
				E44		x	
				E46		x	
				E47		x	
				E48		x	
				E49		x	
				E50		x	
				E51		x	
				E52		x	
				E53		x	
				E54		x	
				E55		x	
				E56		x	
			E57		x		
			E58		x		
			E60		x		
			E61		x		
			E62		x		
			E63		x		
			E64		x		
			E65		x		
			E66		x		
			E67		x		
			E68		x		
			E69		x		
			E70		x		
			E71		x		
			E72		x		
			E73		x		
			E74		x		
V						Option: Charging hoses length 1,5m with ball valve	
* For transcritcal references look at page 38							
Bare body	Reference	How to read the tables? The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants. E.g.: 4 lane & 4 valves aluminium manifold, complete case, 80mm gauges, oil filled, refrigerants: R134a+R404A:					
Central valve	FR0104						
4 valves	FR0104-4R						

* For transcritical references look at page 38

How to read the tables? The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants. E.g.: 4 lane & 4 valves aluminium manifold, complete case, 80mm gauges, oil filled, refrigerants: R134a+R404A: Manifold: FR1308-4R; Refrigerants: E02; Reference: FR1308-4R-E02



Blondelle 4 Lane Manifold

Central valve



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier', Ø 80 gauges
- 4 lanes - Central Valve
- All combinations of refrigerants possible
- Dry, oil filled or pulse-free
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1,5 m with 1/4" SAE fitting, optional ball valves and 1 yellow vacuum charging line, length 1 m with 3/8" fitting. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side. Optional: ball valve

Manifold		Gauges Type	Reference			Scales		Refrigerants
Valves	Other specs		Manifold	Dial	Option	bar	psi	
Central valve	Complete case	Dry Oil filled Pulse-free	FR1108 FR1308 FR1204					
	Without case & hoses	Dry Oil filled Pulse-free	FR0208 FR0408 FR0304					
				E01		x	x	R12+R22+R502
				E02		x	x	R134a+R404A
				E03		x		R22+R134a+R404A
				E04		x		R134a+R404A+R507+R407C
				E05		x	x	R290+R600
				E06		x		R22+R134a+R404A+R507
				E07		x		R134a+R407Cvap/liq
				E08		x		R22+R134a+R404A+R407C
				E09		x		R134a+R22+R409Avap/liq
				E10		x		R22+R417Avap/liq
				E11		x		R134a+R404A+R407Cvap/liq
				E12		x		R134a+R22+R407Cvap/liq
				E13		x		R507+R407Cvap/liq
				E15		x		R410A
				E16		x		R1270
				E17		x		R410A+R22+R134a+R407C
				E20		x		R744 (-1+30 Bar, -1+50 Bar)*
				E21		x		R410A+R22+R404A+R134a
				E23		x		R23
				E24		x		R407Cvap/liq+R410A+R22
				E27		x		R410A+R407C+R404A+R134a
				E28		x		R422Dvap/liq+R422Avap/liq+R417Avap/liq
				E33		x		R744 (-1+30Bar, -1+60Bar)*
				E34		x	x	R744 (-1+30Bar/435psi, -1+50Bar/725psi)*
				E38		x		R134a+R1234yf+R1234ze
				E40		x		R227ea
				E42		x	x	R22+R290+R600A
				E43		x		R134a+R404A+R407F
				E44		x		R32
				E46		x		R407A+R407F+R404A
				E47		x		R404A+R407A+R407F+R449A
				E48		x		R134a+R404A+R407A+R407F
				E49		x		R32+R410A
				E50		x		R290+R134a+R407C+R404A
				E51		x		R404A+R508
				E52		x		R32+R410A+R134a+R407C
				E53		x		R134a+R404A+R22+R449A
				E54		x		R452a
				E55		x		R134a+R404A+R407F+R449A
				E56		x		R134a+R404A+R449A+R407C
				E57		x		R134a+R404A+R407F+R407C
				E58		x		R452a+R404A+R134a
				E60		x		R32+R410A+R407C
				E61		x		R448A+R449A+R407F
				E62		x		R23+R507
				E63		x		R448A+R449A+R450A+R452A
				E64		x		R449Avap/liq+R448Avap/liq
				E65		x		R449A+R452+R513+1234yf
				E66		x		R404A+R449A+R452A+R134a
				E67		x		R407A+R449A+R410A
				E68		x		R448A+R449A+R452A+R455A
				E69		x		R410A+R134a+R407Cvap/liq
				E70		x		R404A+R448A+R449A+R134a
				E71		x		R404A+R452A+R134a+R410A
				E72		x		R410A+R404A+R448A+R134a
				E73		x		R442A+R134a+R404A
				E74		x		R32+R134a+R407C+R404A
					V			Option: Charging hoses length 1,5m with ball valve

* For transcritical references look at page 38

Bare body	Reference
Central valve	FR0104
4 valves	FR0104-4R

How to read the tables? The complete designation of a manifold comprises on one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants. E.g.: 4 lane & central valve aluminium manifold, 80mm gauges, oil filled, charging hoses length 1,5m with ball valve, Refrigerants: R407C Vap.Liq.+R410A+R22: Manifold: FR1308; Refrigerants: E24; Reference: FR1308-E24-V

Blondelle CO2 Manifold

Subcritical & Transcritical



- Refrigerant: R744 (CO2)
- Subcritical: 30 bar & 50/60 bar
- Transcritical: 80 bar & 160 bar (°F & PSI)
- 2 lane manifold, aluminium body

- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 or Ø 100 gauges
- Dry, oil filled (Ø 80), pulse-free

Supplied in a Blondelle plastic carrying case including:

Subcritical: 3 hoses, red, blue and yellow, length 1 meter with 1/4" SAE fittings.

Transcritical: 3 hoses, length 1meter with 1/4" SAE fittings, WP 200 Bar.

		Gauges		Reference			Scales		
Material	Other specs	Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	2-way - Subcritical (complete case) + no sight glass	80 mm	Dry	FR1104					
			Oil filled	FR1304					
			Oil filled	FR1305					
			Pulse-free	FR1202					
	4-way - Subcritical 4-way-4-valves-Sub	80 mm	Oil-filled	FR1308					
			Oil-filled	FR1308-4R					
					E20		x		R744 (-1+30 Bar, -1+50 Bar)
					E33		x		R744 (-1+30 Bar, -1+60 Bar)
	Transcritical (complete case)	80 mm			E34		x	x	R744 (-1+30/435, -1+50/725 Bar/Psi)
			Dry	FR4112					
			Oil filled	FR4312					
			Pulse-free	FR4512					
	Transcritical (Case without hoses)	100 mm	Dry	FR5512					
			Pulse-free	FR5513					
		80 mm	Dry	FR4102					
			Oil filled	FR4302					
	100 mm	Pulse-free	FR4502						
		Dry	FR5502						
		Pulse-free	FR5503						
				E25		x		R744 (-1+80 Bar, -1+160 Bar)	
				E30		x		R744 (-1+100Bar, -1+160Bar)	
				E37		x	x	R744 (-1+80/1200, -1+160/2300 Bar/Psi)	
				E75		x		R744 (-1+80Bar, -1+200Bar)	
				E76		x		R744 (-1+100Bar, -1+200Bar)	
V							Option: charging hoses with ball valve		

Bare body	Reference
Subcritical	FR0102

How to read the tables? The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.
E.g.: 2 lane aluminium manifold, complete case, 80mm gauges, oil filled, refrigerant: R744, pressure: -1+30Bar, -1+50Bar: Manifold: FR1304; Refrigerants: E20; Reference: FR1304-E20



Blondelle 4 Lane CO2 Manifold

Transcritical



- Refrigerant: R744 (CO2)
- Transcritical: 80 bar & 160 bar (°F & PSI)
- 4 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- Dry, oil filled, pulse-free

Supplied in a Blondelle plastic carrying case including:
Transcritical: 4 hoses, length 1,5meter with 1/4" SAE fittings, WP 200 Bar.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	4-lane - Transcritical (complete case)	80 mm	Dry Oil filled Pulse-free	FR4118-4R FR4318-4R FR4518-4R	E25 E30 E37 E75 E76	V	x x x x x	x	R744 (-1+80 Bar, -1+160 Bar) R744 (-1+100Bar, -1+160Bar) R744 (-1+80/1200, -1+160/2300 Bar/Psi) R744 (-1+80Bar, -1+200Bar) R744 (-1+100Bar, -1+200Bar)
							Option: charging hoses with ball valve		

Blondelle Valves for CO2 Hoses

200Bar working pressure



- Optional valves for CO2 hoses
- 200Bar working pressure
- CO2 / R744 (LP & HP)
- 1/4"SAE male - 1/4"SAE female swivel nut

Reference	Description
AC0107-R744	CO2 Shut-off valve

Blondelle CO2 Charging Equipment

Liquid & Gas



- Refrigerant: R744 (CO2)
- Charging equipment with regulator for CO2
- Liquid & Gas - Dedicated liquid filler adaptor
- Choice between 60 or 300 Bar pressure inlet
- Choice between: 10 - 50 - 200 Bar pressure reducer
- 1,8m highpressure hose with safety cable
- 1/4"SAE female
- Direct connection on the CO2 bottle

Version	Hose	Isolation valve	Liquid connector	Reference		Pressure (max.)	
				Reducer	Type	Inlet	Outlet
Complete	x	x	x	FR4612			
Without Acc.				FR4602			
				E25		60Bar	10Bar
				E35		300Bar	50Bar
				E36		300Bar	200Bar



Blondelle CO2 Manifold with Quick-Couplers

Transcritical CO2 applications with SAE J639 Quick-Couplers



- Refrigerant: R744 (CO2)
- Transcritical: 80 bar & 160 bar (°F & PSI)
- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges, Oil filled
- Hoses of 1,5m. Optional: Different lengths / Safety cable / Stainless steel sleeve

Supplied in a Blondelle plastic carrying case including:

Transcritical: 2 hoses, length 1,5meter with 1/4"SAE-1/4"NPT fittings for QCs, WP 200 Bar
+ 1 service hose 1,5m, 1/4"SAE-1/4"SAE WP 200 Bar

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Transcritical	80 mm	Oil filled	FR4414	E25 E30 E37		x x x		R744 (-1+80 Bar, -1+160 Bar) R744 (-1+100Bar, -1+160Bar) R744 (-1+80/1200, -1+160/2300 Bar/Psi)
						V		x	Option: charging hoses with ball valve

Blondelle Refrigeration & Airconditioning CO2 Quick Couplers

CO2 Quick-couplers



- CO2 Quick Couplers
- Refrigeration SAE-J639: Reefer Containers, Trucks, Trailers
- Automotive airconditioning: SAE-J639 & DIN SPEC 74119
- CO2 / R744 (LP & HP)
- Pressure rating 200Bar

Reference	Description
FR1501-8793	CO2 LP quick coupler - refrigeration
FR1501-8794	CO2 HP quick coupler - refrigeration
FR1501-8795	CO2 LP quick coupler - automotive airconditioning
FR1501-8796	CO2 HP quick coupler - automotive airconditioning



Blondelle NH3 Manifold

Total ammonia resistant manifold



- Completely ammonia resistant design
- All parts in contact with ammonia are stainless (inox 316L)
- 2 lane manifold (also available in 4-way on demand)

- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 or Ø 100 gauges
- Dry, oil filled (Ø 80), pulse-free

Supplied in a Blondelle plastic carrying case including: 3 hoses, length 1,5 meter with 1/4" GAS-1/4"GAS or 1/4"GAS-1/4"SAE fittings.

Material	Other specs	Gauges		Reference			Scales			
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants	
Aluminium	Complete case (1/4"GAS-1/4"GAS)	80 mm	Dry	FR2102						
			Oil filled	FR2302						
			Pulse-free	FR2502						
		100 mm	Dry	FR2103						
			Pulse-free	FR2503						
	Complete case (1/4"GAS-1/4"SAE)	80 mm	Dry	FR2602						
			Oil filled	FR2702						
			Pulse-free	FR2802						
		100 mm	Dry	FR2603						
			Pulse-free	FR2803						
	Case without hoses	80 mm	Dry	FR3102						
			Oil filled	FR3302						
			Pulse-free	FR3502						
		100 mm	Dry	FR3103						
			Pulse-free	FR3503						
					E26	x	R717 (-1+10 Bar, -1+30 Bar)			
					E31	x	R717+R723 (-1+10 Bar, -1+30 Bar)			

How to read the tables?

The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.

E.g.: 2 lane aluminium manifold, complete case, 80mm gauges, oil filled, refrigerant: NH3:

Manifold: FR2302; Refrigerants: E26; Reference: FR2302-E26

Blondelle 2 Lane Manifold, Ø 100

All refrigerants in one manifold.



- All combinations of refrigerants possible, up to 6 on 1 dial.
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' gauges
- Ø 100, pulse-free

- 2 lane manifold
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1 m with 1/4" SAE fitting. Option: 1/4" SAE – 5/16" SAE adaptors

		Gauges		Reference			Scales		
Material	Other	Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Complete case	100 mm	Pulse-free	FR5802	E100	A	x		R22+R134a+R404A+R410A+R407C vap/liq
					E42		x		R134a+R404A
					Description of the option				
					2 1/4" SAE-5/16" SAE adaptors				

Other refrigerant combinations are possible.
See p. 26-27-28-29 (Blondelle D100 gauge) or contact Panimpex.

Blondelle Accessories for Manifolds



- Plastic carrying case: for 2 lane and 4 lane manifold sets
- Hook
- Spindle valve: blue (LP) and red (HP)
- Bag of gaskets for valves
- Sight glass repair kit
- Valve spacer kit
- Anti-impact protection (only for vertical fitting); Ø 60 and Ø 80, red, yellow and blue



Piece	Specification	Reference
Plastic case	All (not CO2 Trans)	AC0102-02
	CO2 Trans	AC0102-03
Hook	All	AC0101
Valve	Blue (LP)	AC0104-BP-KIT
	Red (HP)	AC0104-HP-KIT
	Yellow (Vac.)	AC0104-VI-KIT
	Black (Charge)	AC0104-CH-KIT
Valve gaskets	2-way & 4-way	AC0103-VAN
Central valve service kit	Central valve	AC0103-VANCEN

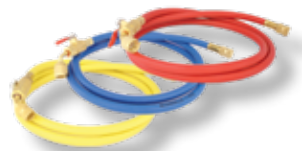
Piece	Specification		Reference
Valve kit			AC0103-RES
Sight glass service kit			AC0106-7393
Anti-impact protection (only for vertical fitting)	Ø 60 mm	Red	AC0308-6123.02
		Blue	AC0308-6123.03
		Yellow	AC0308-6123.04
	Ø 80 mm	Red	AC0308-6124.02
		Blue	AC0308-6124.03
		Yellow	AC0308-6124.04



BLONDELLE ACCESSORIES

HOSES & SPARES

AUTOMOTIVE & WHITE GOODS



Blondelle Charging Hoses



- Hoses for all CFCs, HCFCs, HFCs, as well as for CO₂ and NH₃
Work pressure standard: 40 bar, burst pressure 200 Bar
Work pressure R410A/R32/CO₂ subcritical: 55 bar, burst pressure 275 bar
WP CO₂ transcritical (thermoplastic & braided): 200 bar, burst pressure 800 bar
- Gaskets: neoprene, teflon, copper or EPDM
- Fittings: 1/4"SAE, 5/16"SAE, 3/8"SAE, 1/4"GAS (other threads available on demand)
- The standard lengths are 1m, 1,5m, 2m, 3m and 5m (other lengths available on demand)
- Safety cable on selected models (available on other types on demand)

Set of charging hoses for CFC, HCFC and HFC							
Colour	Refrigerant	Fitting	Gaskets	Extra	Type	Length	Explanation
Red	Standard	Straight side 1/4" SAE - Bow side 1/4" SAE	Neoprene		S40A02		
			Neoprene	Ball valve	S40B02		
			Teflon		S40A12		
			Teflon	Ball valve	S40B12		
	R410A	Straight side 1/4" SAE - Bow side 5/16" SAE	Teflon		S41C12		
			Teflon	Ball valve	S41D12		
Blue	Standard	Straight side 1/4" SAE - Bow side 1/4" SAE	Neoprene		S40A03		
			Neoprene	Ball valve	S40B03		
			Teflon		S40A13		
			Teflon	Ball valve	S40B13		
	R410A	Straight side 1/4" SAE - Bow side 5/16" SAE	Teflon		S41C13		
			Teflon	Ball valve	S41D13		
Yellow	Standard	Straight side 1/4" SAE - Bow side 1/4" SAE	Neoprene		S40A04		
			Neoprene	Ball valve	S40B04		
			Teflon		S40A14		
			Teflon	Ball valve	S40B14		
		Straight side 1/4" SAE - Straight side 3/8" SAE	Neoprene		S40G04		
			Teflon		S40G14		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Neoprene		S40J04		
			Teflon		S40J14		
						100	100 cm
						150	150 cm
						200	200 cm
						300	300 cm
						500	500 cm
						>5m	on demand

Hoses for CO ₂ (R744) & NH ₃ (R717)							
Colour	Refrigerant	Fitting	Gaskets	Extra	Type	Length	Explanation
Red	CO ₂ Subcritical	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon		S41A12		
Blue	CO ₂ Subcritical	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon	Ball valve	S41B12		
			Teflon		S41A13		
Yellow	CO ₂ Subcritical	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon	Ball valve	S41B13		
			Teflon		S41A14		
			Teflon	Ball valve	S41B14		
						100	100 cm
						150	150 cm
						200	200 cm
						300	300 cm
						500	500 cm
						>5m	on demand
Black	CO ₂ Transcritical	Straight side 1/4" SAE - Straight side 1/4" SAE	Copper		S42E25		
	NH ₃	Straight side 1/4" GAS - Straight side 1/4" GAS	EPDM		S42H35		
	NH ₃	Straight side 1/4" GAS - Straight side 1/4" SAE	EPDM		S42L35		
						100	100 cm
						150	150 cm
						300	300 cm
						500	500 cm
		Straight side 1/4" SAE - Straight side 1/4" SAE	Copper	Schraeder Depressor	S42V25	150	150 cm
Braided	CO ₂ Transcritical	Braided stainless steel with safety cable, 1/4" SAE - 1/4" SAE	Copper		S42P26	100	100 cm
						200	200 cm
						300	300 cm
						500	500 cm
						2000	20 m
						3000	30 m
		Braided stainless steel with safety cable, 1/4" SAE - 1/4" SAE	Copper	Schraeder Depressor	S42T26	300	300 cm
		Braided stainless steel with safety cable, 3/8" SAE - 3/8" SAE	Copper		S82Q26	300	300 cm



Set of charging hoses for CFC, HFC, HCFC, CO2 & NH3					
Refrigerant	Fitting	Gaskets	Length	Extra	Type
Standard, WP 40bar	1/4"SAE - 1/4"SAE	Neoprene	100 cm		T3AA
				Ball valve	T3AB
			150 cm		T3AC
				Ball valve	T3AD
			200 cm		T3BI
			300 cm	Ball valve	T3BG
		Teflon	100 cm		T3AE
				Ball valve	T3AF
			150 cm		T3AG
				Ball valve	T3AH
			200 cm		T3BJ
				Ball valve	T3BH
R410A, WP 55bar	1/4"SAE-5/16"SAE	Teflon	500 cm		T3BK
			1000 cm	Ball valve	T3BN
			100 cm		T3AM
			150 cm		T3AO
		Teflon	100 cm		T3AI
				Ball valve	T3AJ
			150 cm		T3AK
				Ball valve	T3AL
			200 cm		T3BL
				Ball valve	T3BM
					T3AQ
				Ball valve	T3AZ
CO2 Subcritical, WP 55bar	1/4"SAE-1/4"SAE	Teflon	150 cm		T3AR
				Ball valve	T3BA
			200 cm		T3BC
					T3BD
		Copper	150 cm		T3BE
			300 cm		T3DV
			500 cm		T3DM
			100 cm		T3AV
			150 cm		T3AW
			100 cm		T3AX
			150 cm		T3AY
CO2 Transcritical, WP 200bar	1/4"SAE-1/4"SAE	Copper	300 cm		T3DQ
			500 cm		T3DW
		EPDM			
NH3, WP 200bar	1/4"GAS-1/4"GAS	EPDM			
		Copper			
CO2 Transcritical, WP-200Bar Braided stainless steel, with Safety Cable	1/4"SAE-1/4"SAE	Copper			
		EPDM			

Spare Parts	Type	Reference
Bag of 6 gaskets	Neoprene	AC0103TUYN
	Teflon	AC0103TUYT
	Copper (CO2 Transcr.)	AC0103TUYC
	EPDM (NH3)	AC0103TUYE
Bag of 3 Schrader depressors	/	AC0105
Ball valves	1/4"SAE-1/4"SAE	AC0107-1414
	1/4"SAE-5/16"SAE	AC0107-14516

Blondelle Remote Thermometer



- Blondelle remote thermometer with saturating pressure bulb
- Accuracy: $\pm 1^{\circ}\text{C}$
- Capillary: length from stock 3 meters
- $\varnothing 60$, $\varnothing 100$ and $\varnothing 150$ mm
- Bulb $\varnothing = 9\text{mm}$
- Capillary length: 1 m - 1,5 m : Bulb length: 100 mm
- Capillary length: 3m : Bulb length: 140 mm
- Capillary length: 5m : Bulb length: 160 mm

60 mm aluminium			
Scale	Outlet	Capillary length	Reference
-40 +40°C	Rear	1M	TH0101 A1 8320
		1.5M	TH0101 A1.5 8320
		3M	TH0101 A3 8320
		5M	TH0101 A5 8320
	Vertical	1M	TH0101 V1 8320
		1.5M	TH0101 V1.5 8320
		3M	TH0101 V3 8320
		5M	TH0101 V5 8320

100 mm aluminium			
Scale	Outlet	Capillary length	Reference
-40 +40°C	Rear	1M	TH0107 A1 8319
		1.5M	TH0107 A1.5 8319
		3M	TH0107 A3 8319
		5M	TH0107 A5 8319
	Vertical	1M	TH0107 V1 8319
		1.5M	TH0107 V1.5 8319
		3M	TH0107 V3 8319
		5M	TH0107 V5 8319

150 mm aluminium			
Scale	Outlet	Capillary length	Reference
-40 +40°C	Rear	1M	TH0109 A1 8321
		1.5M	TH0109 A1.5 8321
		3M	TH0109 A3 8321
		5M	TH0109 A5 8321
	Vertical	1M	TH0109 V1 8321
		1.5M	TH0109 V1.5 8321
		3M	TH0109 V3 8321
		5M	TH0109 V5 8321

Blondelle Residential - White Goods

Gauges & Manifolds for White goods appliances



- 7bar - 100 psi gauge with extended vacuum zone in inhg and mbar
- With or without Refrigerant temperature : R134a & R600a
- Developed for the residential service engineer
- Unique spindle valve, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 oil filled gauge

Reference	Description
FR1002-E35	Manifold with gauge, hoses, hook and gasket service kit
FR1002-E35V	Manifold with gauge, hoses with ball valves, hook and gasket service kit
MA1003V18B-1198	Replacement gauge with 1/8"NPT connection

Blondelle F-GAS - PED Calibration Gauge

High precision gauge with 'aged and stabilised' mechanics - 3 pressure ranges



- PED Calibration gauge
- Used for PED pressure testing and for verification of service manifolds
- Comes with a certificate referring to a higher standard
- Aged and stabilised mechanics

- Class 0,5
- 'A Lame Acier', dry gauge
- 25Bar Ø100, 60Bar Ø150, 180Bar Ø100
- Storage case

Reference:

- 0-25Bar : MA1202V14S-4031-CET
- 0-60Bar : MA1305V14S-9038-CET
- 0-180Bar : MA1202V14S-4016-CET

Blondelle Spindle Valve Mechanism

Unique valve, always tight without effort

Valve closed



Valve opened



Blondelle Automotive

Automotive tools & accessories



- Refrigerant: R134a & HFO R1234yf & R1234ze & R744 (CO2)
- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- Dry, oil filled (Ø 80), pulse-free

Supplied in a Blondelle plastic carrying case including:
2-way manifold with hook, 3 hoses, red, blue and yellow, length 1 meter with 1/4" SAE fittings.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Complete case & hoses	80 mm	Dry	FR1104					
			Oil filled	FR1304					
			Pulse-free	FR1202					
			Oil filled		E38		x	x	R134a+R1234yf+R1234ze
	Complete case & hoses & Quick Couplers			FR4414	E25		x		R744 (-1+80 Bar, -1+160 Bar)
					E37		x	x	R744 (-1+80/1200, -1+160/2300 Bar/Psi)
						V			Option: charging hoses with ball valve

How to read the tables?

The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.

E.g.: 2 lane aluminium manifold, complete case, 80mm gauges, oil filled: Manifold: FR1304; Refrigerants: E38; Reference: FR1304-E38

Blondelle Automotive Quick Couplers

Standard / OEM - BMW / CO2



- Automotive airconditioning quick couplers
- Standard (LP & HP)
- BMW (OEM-version)
- CO2 / R744 (LP & HP) - Automotive airconditioning: SAE-J639 & DIN SPEC 74119



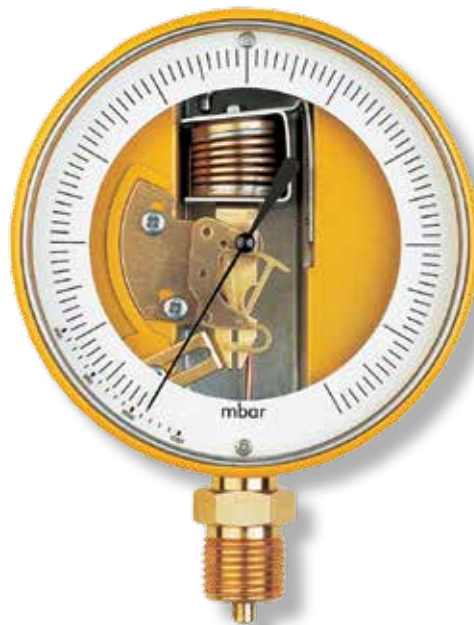
Reference	Description
FR1501-6472	LP quick coupler
FR1501-6473	HP quick coupler
FR1501-6475	HP BMW quick coupler (OEM)



Reference	Description
FR1501-8795	CO2 LP quick coupler - automotive airconditioning
FR1501-8796	CO2 HP quick coupler - automotive airconditioning



BLONDELLE VACUUM GAUGES



Blondelle Vacuum Gauge, Ø 60, Composite

High-end vacuum gauge



- High accuracy vacuum gauge
- Vacuum gauge: -760 mmHg to 0 or -1000 mbar to 0
- Pseudo-absolute: 0 +1000 mbar or 0 +1000 mbar/inHg
- Class 1, 'A Lame Acier'
- Ø 60, dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT
- Options: safety valve, indicator needle, 1/4" SAE female fitting

Version	Outlet	Fitting	Reference			Scales	
			Case	Dial	Option	Relative	Pseudo-absolute
Dry	Vertical	1/4" SAE	MA0602V14S				
		1/8" NPT	MA0602V18B				
	Rear	1/4" SAE	MA0602A14S				
		1/8" NPT	MA0602A18B				
Oil filled	Vertical	1/4" SAE	MA1002V14S				
		1/8" NPT	MA1002V18B				
	Rear	1/4" SAE	MA1002A14S				
		1/8" NPT	MA1002A18B				
				6099		-760 mmHg to 0	
				6103		-1000 mbar to 0	
				6089			0+1000 mbar
					28	Description of the options	
					01	Safety valve (+60Bar)	
					45	Indicator needle (not for oilfilled)	
					AC	1/4" SAE female fitting	
						Anti-impact protection	

How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Vacuum gauge D60mm composite, oil filled, rear outlet, 1/4"SAE, -1000mbar to 0, needle indicator:
Case: MA1002A14S; Dial: 6103; Option 01; Reference: MA1002A14S-6103-01

Blondelle Vacuum Gauge, Ø 80, Composite

High-end vacuum gauge



- High accuracy vacuum gauge
- Vacuum gauge: -760 mmHg to 0 or -1000 mbar to 0
- Pseudo-absolute: 0 +1000 mbar or 0 +1000 mbar/inHg
- Class 1, 'A Lame Acier'
- Ø 80, dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT
- Options: safety valve, indicator needle, 1/4" SAE female fitting

Version	Outlet	Fitting	Reference			Scales	
			Case	Dial	Option	Relative	Pseudo-absolute
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/8" NPT	MA0901A18B				
				6100		-760 mmHg to 0	
				6104		-1000 mbar to 0	
				6090			0+1000 mbar
						Description of the options	
					28	Safety valve (+60Bar)	
					01	Indicator needle (not for oilfilled)	
					45	1/4" SAE female fitting	
					AC	Anti-impact protection	

How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Vacuum gauge D80mm composite, dry, rear outlet, 1/4"SAE, 0+1000mbar, needle indicator, safety valve: Case: MA0603A14S; Dial: 6090; Option: 2801; Reference: MA0603A14S-6090-2801

Blondelle Vacuum Gauge Ø100, Aluminium

High-end vacuum gauge



- High accuracy vacuum gauge
- Absolute reading possible by adjusting the needle to the day's atmospheric pressure
- Ø 100, aluminium case
- Class 1, 'A Lame Acier'
- Fitting: 1/2" GAZ, 1/4" SAE or 1/8" NPT
- Dry
- Options: safety valve, indicator needle, 1/4" SAE female fitting

Version	Outlet	Fitting	Reference			Scales	
			Case	Dial	Option	Pseudo-absolute	
Dry	Vertical	1/2" GAZ 1/8" NPT 1/4" SAE	MA0107V12G MA0107V18B MA0107V14S	1175 4024 6095		-250mbar+0 -500mbar+500mbar 0+1000 mbar	
							Description of the options
							Safety valve (+60Bar)
					28		Indicator needle
					01		1/4" SAE female fitting
					45		

How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Pseudo-Absolute Vacuum gauge D100mm aluminium, dry, vertical outlet, 1/2"GAZ, 0+1000mbar, indicator: needle. Case: MA0107V12G; Dial: 6095; Option: 01; Reference: MA0107V12G-6095-01

Blondelle 4 Lane Manifold 'Special Vacuum'



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- 4 lanes - 4 valves
- Ø 80
- All combinations of refrigerants
- Oil filled
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including:

3 charging hoses; red, yellow and blue; length 1,5 m with 1/4" SAE fitting and 1 yellow charging hose, length 1 m with 3/8" fitting. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side. Optional: ball valves.

References: see p.36

Blondelle Absolute Vacuum Gauge, Ø 100, Alu

Extreme precision



- High accuracy vacuum gauge
- Built-in absolute vacuum reference
- Eliminates the effects due to variations of the atmospheric pressure
- No re-adjustment of the needle to 0 is required
- 1,5 mBar precision
- Ø 100, aluminium case
- Dry
- Fitting: 1/2" Gaz or 1/4" SAE

Version	Outlet	Fitting	Reference			Scales Absolute
			Case	Dial	Option	
Dry	Vertical	1/2" GAZ 1/4" SAE	MA1501V12G MA1501V14S	6098		0+150 mbar
						Description of the option
					28	Safety valve (+60Bar)
					45	1/4" SAE female fitting

How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Absolute Vacuum gauge D100mm aluminium, dry, vertical outlet, 1/4"SAE, 0+150mbar

Case: MA1501V14S; Dial: 6098 Reference: MA1501V14S-6098

Blondelle 1 Lane Manifold with Vacuum Gauge



- Unique spindle valve, always tight without effort
- Class 1, 'A Lame Acier'
- Ø 60 & Ø 80 gauge
- Dry, oil filled or pulse-free (Ø 80 only)
- Available with the appropriate charging hoses

Supplied with gauge mounted on 1-way manifold including 2 yellow charging hoses, length 1 m with 1/4" SAE fitting. Options: safety valve, indicator needle, 1/4" SAE female fitting, ball valves.

Ø 60 Manifold Material	Vacuum gauge Type	Reference			Scales	
		Manifold	Scales	Options	Relative	Pseudo-absolute
Aluminium	Dry	FR0801				
	Oil-filled	FR1001				
			6099		-760 mmHg to 0	
			6103		-1000 mbar to 0	
			6089			0+1000 mbar
					Description of the options	
				28	Safety valve (+60Bar)	
				01	Indicator needle (not for oilfilled)	
			V	Charging hoses length 1m with ball valve		
			AC	Anti-impact protection		

Ø 80 Manifold Material	Vacuum gauge Type	Reference			Scales	
		Manifold	Scales	Options	Relative	Pseudo-absolute
Aluminium	Dry	FR0802				
	Oil-filled	FR1002				
	Pulse-free	FR0901				
			6100		-760 mmHg to 0	
			6104		-1000 mbar to 0	
			6090			0+1000 mbar
					Description of the options	
				28	Safety valve (+60Bar)	
				01	Indicator needle (not for oilfilled)	
				V	Charging hoses length 1m with ball valve	
			AC	Anti-impact protection		

How to read the tables?

The complete designation of a manifold comprises on the one hand the references of the manifold and vacuum gauge and on the other hand the reference of the scale.

E.g.: 1-lane aluminium manifold, 80mm gauge, oil filled, charging hoses length 1m with ball valve, scale:-1000mbar to 0: Manifold: FR1002; Scale: 6104; Reference: FR1002-6104-V



SUPER-SEAL



Super Seal

Seals and dries



- 947KIT - Super Seal Advanced, ACR, Professional Formula, for smaller systems. (<5kW)
- 944KIT - Super Seal Advanced, HVACR, Professional Formula, for most residential systems. (5kW – 17kW)
- 948KIT - Super Seal Advanced, Commercial, Commercial and Industrial Strength Formula. (>17kW)
- 946KIT - Super Seal Advanced, Automotive – Premium
- Advanced sealing power with DRY R™ to eliminate 20 drops of water and prevent acid & waxing
- Faster – no recovery, no pump down
- Contaminant free
- Contains no butane or propane
- Compatible with all oils & refrigerants

- Delivered with manual and hose

Super Change

System retrofit



- 918KIT - Fast & easy retrofit flush replacer
- Eliminates oil change out
- Links Mineral/AB oil to any HFC refrigerant
- Replaces R22/R404A line set conversion flush
- Maximizes oil return & heat transfer on retrofit & drop in refrigerants

- Delivered with manual and hose



REFRIGERATION TECHNOLOGIES



Big Blu

Micro-leak detector



- Bubble solution
- Sensitivity: 20 grams/year
- Non toxic, non corrosive, biodegradable
- Strong and persistent film
- Approved for use on oxygen systems

Big Blu - Sub-Zero (Super Blu)

Finding leaks in extreme circumstances



- Bubble solution
- Usage under extreme conditions; -35°C to 90°C
- Non toxic, biodegradable
- Approved for use on oxygen systems



Check-Mate

Examine the level of contamination with this simple refrigerant and oil test



- Simple oil test
- 1 test for all oils: MO, AB, PAG or POE
- Indication of contamination by means of a colour scheme
- Refrigerant test: acid/moisture content
- For all HFC, HFO, HCFC or CFC refrigerants
- Complete case: ready to use, durable and affordable
- Detector tubes separately available

- Delivered in a hard plastic case with Check-Mate and 3*3 detector tubes: 3 oil tests, 3 humidity tests, 3 acidity tests.

Nylog

Install without leaks

Nylog Red



Nylog Blue



- Prevents leakage through refrigeration gaskets and threaded fittings
- Never hardens
- Remains temperature and vibration resilient
- Nylog Red; installations with CFC and HCFC
- Nylog Blue: installations with HFC and HFO

Viper Wet-Rag

Heat-blocking putty



- BETTER THAN A WET RAG
- This reusable heat blocking putty keeps piping and sensitive components cooler than traditional wet rag
- Applications during brazing, soldering, or welding
- It is made from the same materials found in the heat shield of the space shuttle.
- Simply apply, remove, and reuse.
- Reusable like a Wet Rag
- Protects surfaces, valves, and other sensitive parts from heat damage
- Blocks direct and conductive heat transfer
- No mess formula
- Use with Map/Pro, Oxy/Acetylene, Mig, Tig, Arc, and propane torches
- Non-Toxic
- Reusable - For up to 40 applications
- Conductive Heat - Blocks conductive heat transfer to protect sensitive parts
- Direct Heat - Blocks direct heat up to 1100°C
- Indicator Dye - Special dye fades over time to indicate when replacement is needed



Efficiency Measurement Solutions

MAINTENANCE & CALIBRATION

[illegible]

PX-Calibrate

The only portable, easy-to-store leak with a traceable certificate and a shut-off valve



F-GAS COMPLIANT VERIFICATION



- Verify your refrigerant leak detector according to the F-GAS EN14624
- R134a Calibrated reference leak
- Traceable & Calibrated
- Can be delivered with a certificate on demand
- Shut-off valve - doesn't leak all the time
- 5g/year
- Easy to store
- Sintered leak technology powered by HTP
- Delivered in a compact, easy to store can.

Leak Detector F-GAS Certificate

Leak detector verification certificate according to EN-14624



PANIMPEX NV

We certify that the refrigerant leak detectors, PX-3 developed and produced by Nolek and the PX-2 developed and produced by C-BISS

are in accordance with the devices tested by the

Centre d'Energétique
60, boulevard Saint-Michel
75272 PARIS Cedex 06

following the procedure of the EN 14624 Standard.
(see end of this journal for complete text)

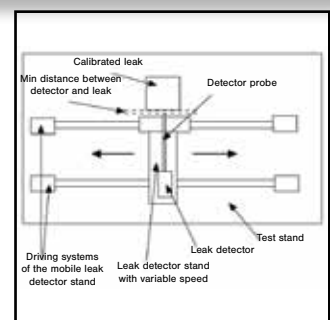
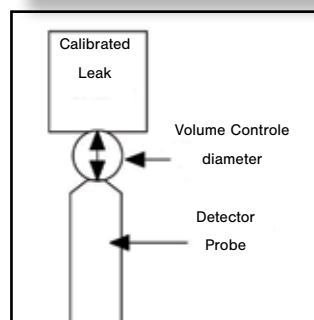
The sensitivity measured by the 'Centre d'Energétique' is:

	PX-3	PX-2
Sensitivity in fixed position	0,5 gr/y	3 gr/y
Sensitivity while moving	0,5 gr/y	3 gr/y

JP Peirs - Panimpex NV
Veurnestraat 162
B-8660 De Panne
Belgium



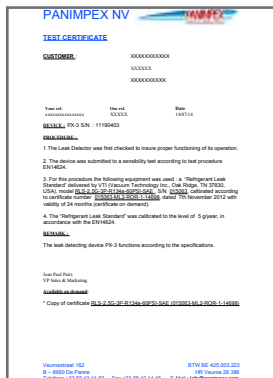
- Verification of your leak detector according to the EN 14624 F-GAS Standard.
- This certificate complies with the needs and demands of the F-GAS certification for professionals.
- This certificate offers great added value for your customer. He will be able to verify that the maintenance done on his system is done properly.



- This service is available at your wholesaler and at Panimpex.

Calibration

Pressure gauges, Vacuum gauges, Temperature gauges, Scales, Recovery Units



- Leak detectors
- Gauges
- Manifolds
- Vacuum gauges
- Electronic manifolds & sensors
- Scales
- Recovery units
- ...
- Contact us for to find out more about our services

Blondelle F-GAS - PED Calibration Gauge

High precision gauge with 'aged and stabilised' mechanics - 3 pressure ranges



- PED Calibration gauge
- Used for PED pressure testing and for verification of service manifolds
- Comes with a certificate referring to a higher standard
- Aged and stabilised mechanics
- Class 0,5
- 'A Lame Acier', dry gauge
- 25Bar Ø100, 60Bar Ø150, 180Bar Ø100,
- Storage case

Reference:

- 0-25Bar : MA1202V14S-4031-CET
- 0-60Bar : MA1305V14S-9038-CET
- 0-180Bar : MA1202V14S-4016-CET



SMART MOBILE MEASURING



GAUGES & VACUUM GAUGES
MANIFOLDS & HOSES



SUPER-SEAL



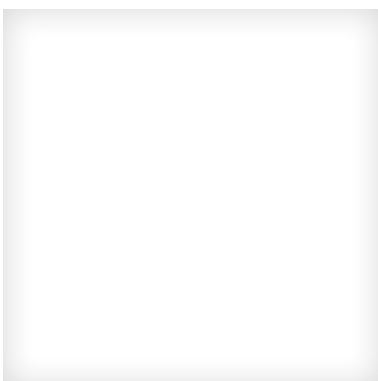
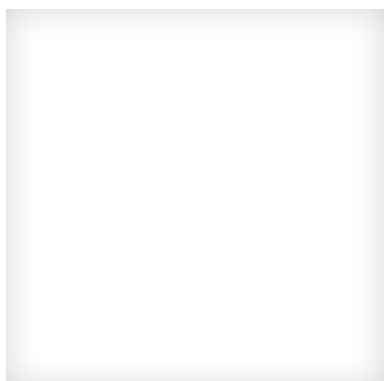
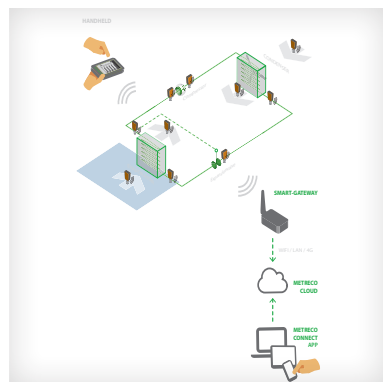
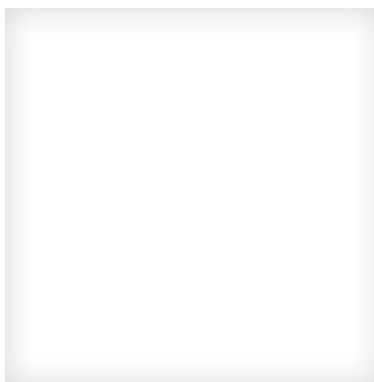
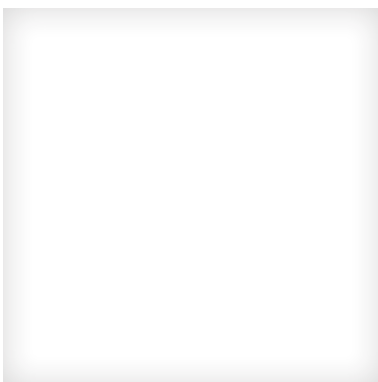
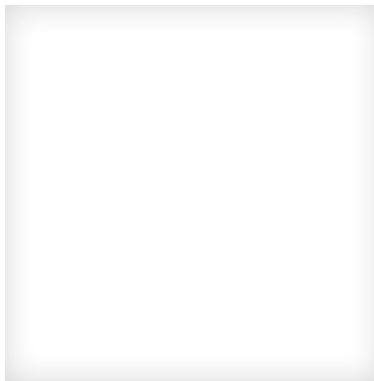
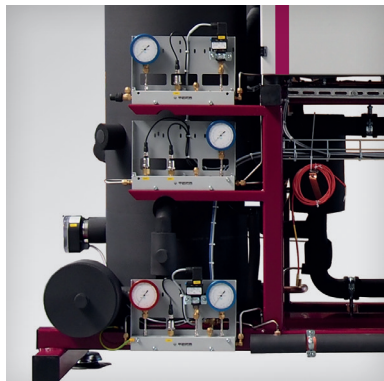
REFRIGERATION TECHNOLOGIES



MAINTAINANCE & CALIBRATION

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