

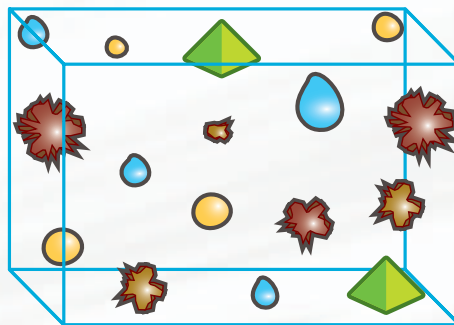
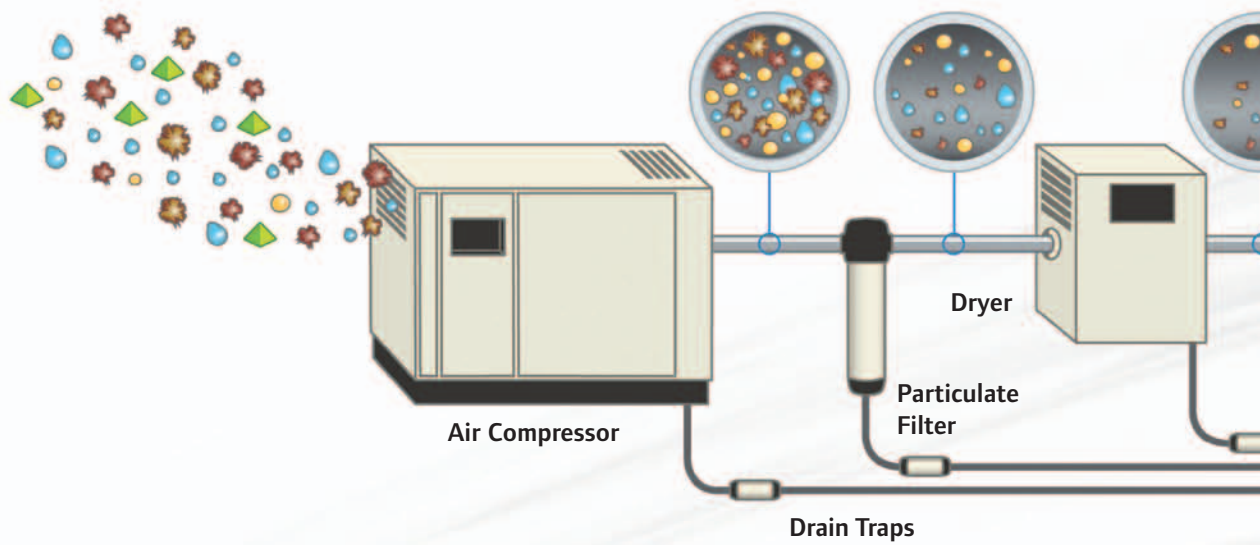
# Ingersoll Rand

Continually Moving Forward

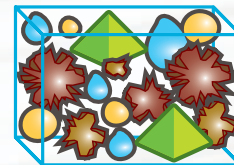


# The Importance of Air Quality

# Air Quality



Atmospheric







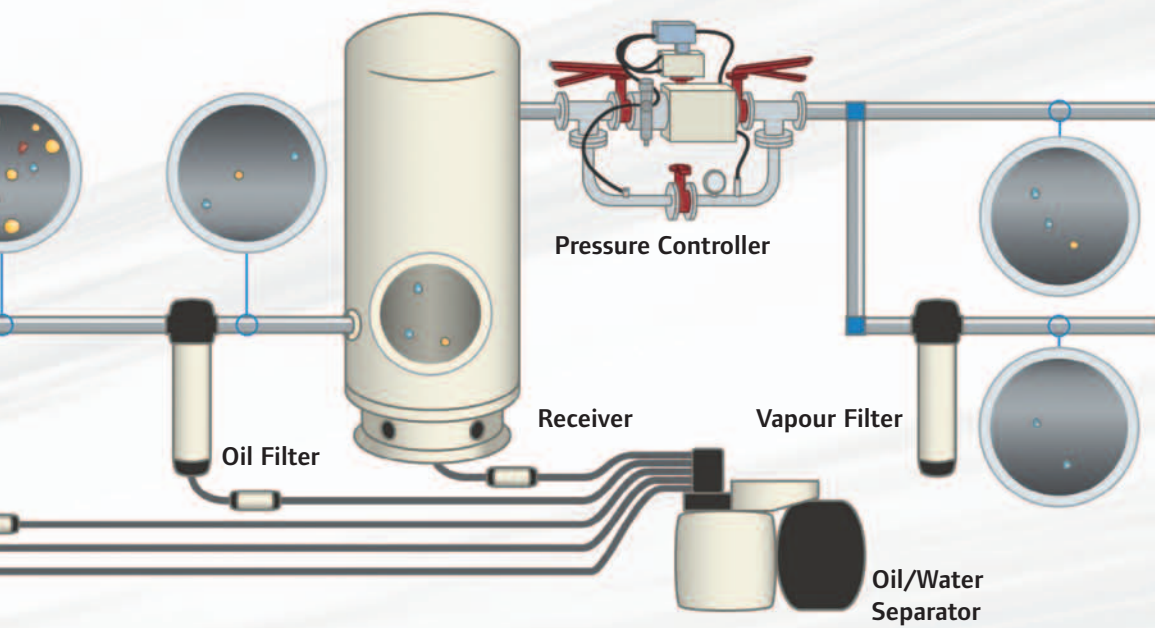
Compressed to 7 bar(g)

The act of compressing atmospheric air to 7 bar(g) creates an 800% increase in the concentration of contaminants.

## What Influences Your Compressed Air Quality?

Dirt, moisture and oil are everywhere. But they shouldn't be in your compressed air supply.

-  Dust, dirt, pollen, microorganisms, smoke, exhaust emissions and other particulates
-  Moisture in the form of water vapour
-  Oil, unburned hydrocarbons from the ambient air and compressor coolant carryover
-  Caustic gases such as sulfur oxides, nitrogen oxides and chlorine compounds



General Manufacturing  
 Assembly  
 Conveying  
 Air Tool Use

Advanced Pneumatics  
 Instrument Quality  
 Food Grade



### The Results of Contaminated Compressed Air

The problems created by contaminated compressed air in your system can range from annoyance to wreaking havoc on your equipment and your end products.



- Premature wearing and scoring of surfaces
- Rust and corrosion in tools, piping and equipment
- Damaged instruments
- Spoiled paint surfaces



- Increased scrap rate
- Unsafe or unpleasant work environment

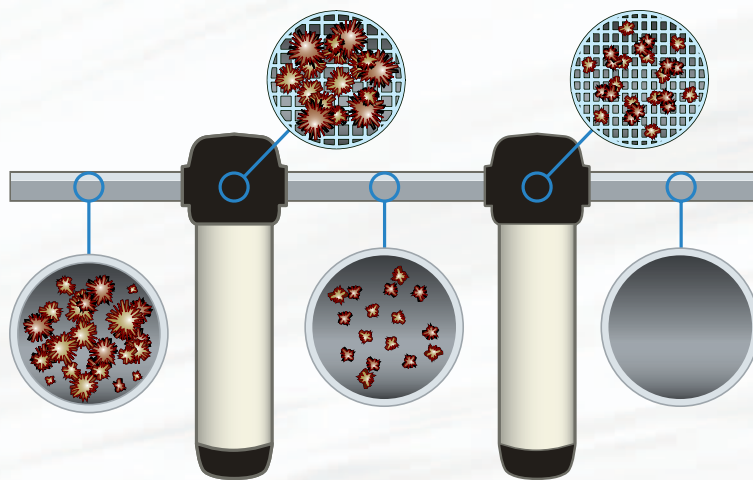
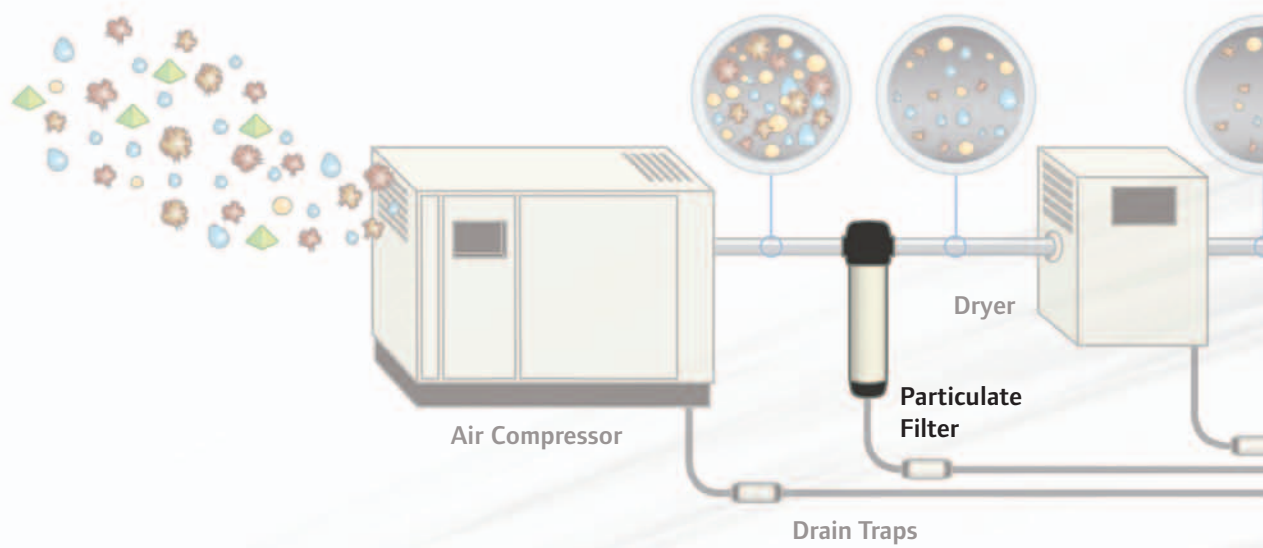
### ISO 8573-1 Air Quality Classes

Maintaining air quality is so important that the International Standards Organisation (ISO) developed six compressed air quality classes, as defined by ISO 8573-1. To determine which industry classification you require, ask yourself these simple questions:

- Does compressed air quality affect my production process and the quality of my end products?
- Will poor compressed air quality decrease my productivity, cost savings and product quality standards?
- What internal and external ambient conditions affect the quality of my compressed air produced by my system?

# Removing Particulate Contamination

Air Quality



The first filter removes larger particles.

The second filter removes smaller particles.

For sensitive or critical applications more than one set of filters may be required at the "point-of-use".

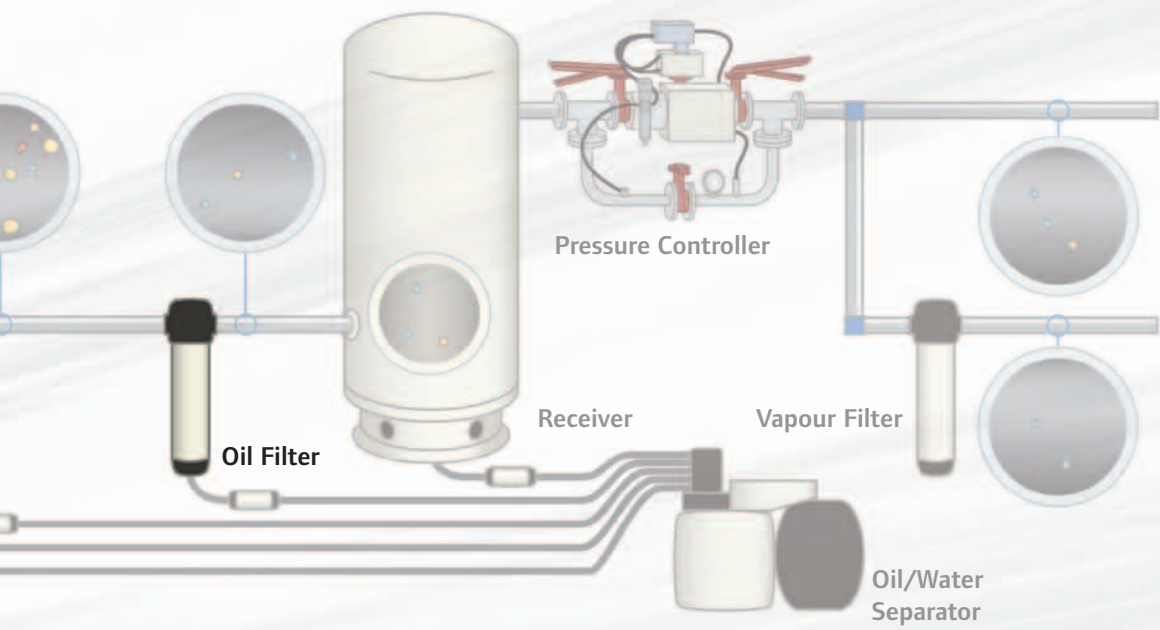
Always precede fine filters with a coarser grade.

## Contaminants Can Destroy a Compressed Air System

Think of it as a mini dust storm at 7 bar(g). The particulates scattered almost invisibly throughout the ambient air become a concentrated force for damage and destruction of your air-operated tools, equipment and instruments.

- Systems are damaged and products are spoiled

- Scoring and uneven wear patterns ruin tools and instruments
- Volatile, hazardous compounds are produced
- Production shuts down, productivity and quality suffer



General Manufacturing  
 Assembly  
 Conveying  
 Air Tool Use

Advanced Pneumatics  
 Instrument Quality  
 Food Grade

**Compressed Air Quality ISO 8573-1:2001**

Quality Class	SOLIDS Max Number of Particles Per m <sup>3</sup>			WATER Pressure Dew Point °C	OIL & OIL VAPOUR mg/m <sup>3</sup>	Quality Class
	0.1 – 0.5 micron	0.5 – 1 micron	1 – 5 micron			
0	As specified by the end-user or manufacturer, and more stringent than Class 1					0
1	100	1	0	-70	0.01	1
2	100,000	1000	10	-40	0.1	2
3	N/A	10,000	500	-20	1	3
4	N/A	N/A	1,000	3	5	4
5	N/A	N/A	20,000	7	N/A	5
6	N/A	N/A	N/A	10	N/A	6

**Dual Filters Eliminate  
 Dirt and Problems**

Eliminating the “sandblast” effect of particulates in your compressed air stream gets rid of:

- Premature wear
- Scored surfaces
- Clogged orifices
- Ruined finishes and instruments

# Reciprocating Compressors

*All Units - These compressors have auto start/stop regulation pressure switches, a receiver pressure gauge and come complete with a factory fill of lubricant.*

## Direct Drive Portable Receiver Unit

- Full skirt piston with three piston rings
- Pressure regulator with gauge at discharge
- Safety Relief Valve and Check Valve fitted
- Quick release fitting on discharge regulator
- Fitted with power lead



1

## Belt Drive Fixed Receiver Unit

- Twin Cylinder two stage pump units
- Inlet air filter
- Safety Relief Valve fitted

## Belt Drive Portable Receiver Unit

- Twin Cylinder single stage pump units
- Pressure regulator with gauge at discharge
- Includes wheel kit and manoeuvring handle
- Quick release fitting on discharge regulator
- Safety Relief Valve and Check Valve fitted



2



3

## Specifications

Model	Motor		Pressure Max		Receiver Litres	Electrics 50 Hz	Starter	Piston Displacement l/min cfm	Dimensions mm			Weight Kg	
	kW	hp	bar	psig					Width	Length	Height		
<b>Direct Drive Portable Receiver Units</b>													
PD1.1-24-1	1.1	1.5	8	116	24	230/1	P/Switch	190	6.7	280	580	590	23
PD1.1-50-1	1.1	1.5	8	116	50	230/1	P/Switch	190	6.7	370	750	670	32
PD1.5-24-1	1.5	2.0	8	116	24	230/1	P/Switch	230	8.1	280	580	590	23
PD1.5-50-1	1.5	2.0	8	116	50	230/1	P/Switch	230	8.1	370	750	670	32
PD1.5-100-1	1.5	2.0	8	116	100	230/1	P/Switch	230	8.1	440	960	760	45
<b>Belt Drive Portable Receiver Units</b>													
PB1.5-50-1	1.5	2.0	10	145	50	230/1	P/Switch	250	8.8	410	1060	690	50
PB1.5-50-3	1.5	2.0	10	145	50	400/3	P/Switch	250	8.8	410	1060	690	50
PB1.5-100-1	1.5	2.0	10	145	100	230/1	P/Switch	250	8.8	440	1000	830	62
PB1.5-100-3-230	1.5	2.0	10	145	100	230/3	P/Switch	250	8.8	440	1000	830	62
PB1.5-100-3	1.5	2.0	10	145	100	400/3	P/Switch	250	8.8	440	1000	830	62
PB2.2-100-1	2.2	3.0	10	145	100	230/1	P/Switch	350	12.4	440	1000	830	64
PB2.2-200-1	2.2	3.0	10	145	200	230/1	P/Switch	350	12.4	450	1460	900	102
PB2.2-200-3	2.2	3.0	10	145	200	400/3	P/Switch	350	12.4	450	1460	900	102
PB3-200-3	3.0	4.0	10	145	200	400/3	P/Switch	400	14.1	450	1460	900	102
PB3-270-3	3.0	4.0	10	145	270	400/3	P/Switch	400	14.1	500	1500	970	146
<b>Belt Drive Fixed Receiver Units</b>													
PB4-200-3	4.0	5.5	10	145	200	400/3	DOL	600	21.2	450	1460	960	135
PB4-270-3-230	4.0	5.5	10	145	270	230/3	DOL	600	21.2	500	1500	1100	145
PB4-270-3	4.0	5.5	10	145	270	400/3	DOL	600	21.2	500	1500	1100	145
PB4-500-3	4.0	5.5	10	145	500	400/3	DOL	600	21.2	590	1970	1300	240
PB5.5-270-3	5.5	7.5	10	145	270	400/3	DOL	830	29.3	500	1500	1100	152
PB5.5-500-3	5.5	7.5	10	145	500	400/3	DOL	830	29.3	590	1970	1300	255
PB7.5-500-3	7.5	10.0	10	145	500	400/3	DOL	912	32.2	590	1970	1300	260

(P/Switch = Pressure Switch)

# Silenced and Petrol Reciprocating Compressors

The *PS Series* is the Ingersoll Rand fully enclosed silent reciprocating compressor package, that allows you to place the compressor closer to the point of use.

## Standard Features

- Inlet air filter
- Auto Start and Stop regulation by pressure switch
- Twin Cylinder Aluminum pump unit
- IP54 TEFV Motor
- DOL, with Star/Delta Starter option (4 to 7.5 kW)
- Factory-fill of lubricant



## Petrol Engine Unit

Ingersoll Rand portable, petrol driven reciprocating air compressors are perfect for applications where there is no electric power supply available such as agricultural, building or leisure industries.

The units are equipped with large all-terrain tyres making it easier to move them around on uneven ground. The wide-track gauge also facilitates their transport in difficult environments.

Both models (4.0 & 6.7 kW) come equipped with a Honda petrol engine and a pressure regulator/filter.

## Specifications

Model	Motor		Pressure Max		Receiver Litres	Electrics 50 Hz	Starter	Piston Displacement		Dimensions mm			Weight Kg
	kW	hp	bar	g psig				l/min	cfm	Width	Length	Height	
<b>Silenced Belt Drive Units</b>													
PS1.5-24-1	1.5	2.0	10	145	24	230/1	DOL	250	8.8	490	610	690	100
PS1.5-24-3	1.5	2.0	10	145	24	400/3	DOL	250	8.8	490	610	690	100
PS2.2-24-1	2.2	3.0	10	145	24	230/1	DOL	350	12.4	490	610	690	102
PS2.2-24-3	2.2	3.0	10	145	24	400/3	DOL	350	12.4	490	610	690	102
PS3-270-3	3.0	4.0	10	145	270	400/3	DOL	450	15.9	600	1500	1220	190
PS3-3	3.0	4.0	10	145	-	400/3	DOL	450	15.9	590	840	740	125
PS3-3-230	3.0	4.0	10	145	-	230/3	DOL	450	15.9	590	840	740	125
PS4-270-3	4.0	5.5	10	145	270	400/3	DOL	625	22.1	600	1500	1220	215
PS4-3	4.0	5.5	10	145	-	400/3	DOL	625	22.1	590	840	740	160
PS4-3SD	4.0	5.5	10	145	-	400/3	Star Delta	625	22.1	590	840	740	160
PS5.5-3	5.5	7.5	10	145	-	400/3	DOL	777	27.4	590	840	740	170
PS5.5-3SD	5.5	7.5	10	145	-	400/3	Star Delta	777	27.4	590	840	740	170
PS5.5-270-3	5.5	7.5	10	145	270	400/3	DOL	777	27.4	600	1500	1220	230
PS5.5-270-3-D	5.5	7.5	10	145	270	400/3	DOL	777	27.4	6000	2000	1330	340
PS7.5-3SD	7.5	10.0	10	145	-	400/3	Star Delta	912	32.2	590	840	740	170
PS7.5-500-3SD	7.5	10.0	10	145	500	400/3	Star Delta	912	32.2	6000	2000	1330	305
PS7.5-500-3SD-D	7.5	10.0	10	145	500	400/3	Star Delta	912	32.2	6000	2000	1330	340
<b>Petrol Engine Units</b>													
PP4-11X2	4.0	5.5	10	145	11+11	-	-	500	17.7	700	820	790	85
PP7-17X2	6.7	9.0	10	145	17+17	-	-	670	23.7	770	1070	890	108

# Type 30 Reciprocating Compressors

*The Ingersoll Rand Type 30 was introduced in 1929 and is still one of the world leaders in heavy duty applications, where reliability, efficiency, durability and maintenance are of paramount importance to the customer.*

## 2-Stage Lubricated

Designed for heavy shop or industrial use, such as automotive service and body shops, machine shops, construction, car washes and manufacturing lines, Ingersoll Rand's T30 2-stage lubricated compressors, with their cast iron cylinders, provide the quality and performance that are required in these applications.



The T30 2-stage lubricated range comprises of Value and Premium packages, making choosing the correct machine and configuration even easier to suit your customer's requirements. Both packages come in either an 11 bar g receiver mounted or 14 bar g base-mounted configuration.

The Value package provides an economic and dependable solution for those customers simply focused on a reliable compressed air solution and is ideal for commercial, automotive and light industrial applications.

The Premium package enhances durability and performance by offering all the features of the Value package plus a number of additional features that provide increased reliability, lower maintenance and an overall higher quality of performance. The additional features include an air-cooled aftercooler, low oil level switch and an auto-condensate drain (on receiver mounted units) that make the Premium package ideally suited for manufacturing and more heavy duty industrial applications.

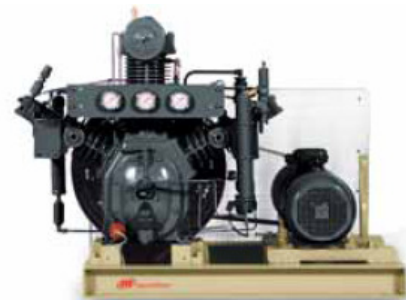


## Specifications

Model	Motor		Pressure Max bar g	Receiver Litres	Piston Displacement		Dimensions cm L x W x H	Weight kg
	kW	hp			l/min	cfm		
<b>Value Package</b>								
T30/200/3 V	2.2	3.0	11	200	290	10.2	162 x 68 x 122	140
T30/X/3 V	2.2	3.0	14	-	290	10.2	125 x 80 x 85	90
T30/200/4 V	3.0	4.0	11	200	387	13.7	162 x 68 x 122	145
T30/X/4 V	3.0	4.0	14	-	362	12.8	125 x 80 x 85	95
T30/200/5.5 V	4.0	5.5	11	200	523	18.5	162 x 68 x 122	170
T30/X/5.5 V	4.0	5.5	14	-	523	18.5	125 x 80 x 85	115
T30/200/7.5 V	5.5	7.5	11	200	702	24.8	162 x 68 x 122	180
T30/X/7.5 V	5.5	7.5	14	-	657	23.2	125 x 80 x 85	135
T30/200/10 V	7.5	10.0	11	200	1013	35.8	162 x 80 x 145	235
T30/X/10 V	7.5	10.0	14	-	1013	35.8	125 x 80 x 85	185
T30/500/15 V	11.0	15.0	11	500	1441	50.9	210 x 90 x 165	425
T30/X/15 V	11.0	15.0	14	-	1292	45.6	155 x 85 x 110	295
T30/500/20 V	15.0	20.0	11	500	1713	60.5	210 x 90 x 165	435
T30/X/20 V	15.0	20.0	14	-	1713	60.5	155 x 85 x 110	300
T30/500/25 V	18.5	25.0	11	500	2620	92.5	210 x 90 x 165	580
T30/X/25 V	18.5	25.0	14	-	2620	92.5	155 x 85 x 110	460
T30/500/30 V	22.0	30.0	11	500	2932	103.5	210 x 90 x 165	600
T30/X/30 V	22.0	30.0	14	-	2932	103.5	155 x 85 x 110	480
<b>Premium Package</b>								
T30/200/3 P	2.2	3.0	11	200	290	10.2	162 x 78 x 122	180
T30/X/3 P	2.2	3.0	14	-	290	10.2	125 x 95 x 85	130
T30/200/4 P	3.0	4.0	11	200	387	13.7	162 x 78 x 122	195
T30/X/4 P	3.0	4.0	14	-	362	12.8	125 x 95 x 85	145
T30/200/5.5 P	4.0	5.5	11	200	523	18.5	162 x 68 x 122	220
T30/X/5.5 P	4.0	5.5	14	-	523	18.5	125 x 95 x 85	165
T30/200/7.5 P	5.5	7.5	11	200	702	24.8	162 x 68 x 122	230
T30/X/7.5 P	5.5	7.5	14	-	657	23.2	125 x 95 x 85	185
T30/200/10 P	7.5	10.0	11	200	1013	35.8	162 x 80 x 145	300
T30/X/10 P	7.5	10.0	14	-	1013	35.8	125 x 95 x 85	250
T30/500/15 P	11.0	15.0	11	500	1441	50.9	210 x 90 x 165	500
T30/X/15 P	11.0	15.0	14	-	1292	45.6	155 x 100 x 110	370
T30/500/20 P	15.0	20.0	11	500	1713	60.5	210 x 90 x 165	510
T30/X/20 P	15.0	20.0	14	-	1713	60.5	155 x 100 x 110	375
T30/500/25 P	18.5	25.0	11	500	2620	92.5	210 x 90 x 165	655
T30/X/25 P	18.5	25.0	14	-	2620	92.5	155 x 100 x 110	535
T30/500/30 P	22.0	30.0	11	500	2932	103.5	210 x 90 x 165	675
T30/X/30 P	22.0	30.0	14	-	2932	103.5	155 x 100 x 110	555

## High Pressure

The Ingersoll Rand T30 high pressure units, used in industries such as refuelling stations, beverage plants, power stations and engine starting, are a series of base-mounted piston compressors that can provide your customer with pressures as high as 345 bar g. Consistent with the 2-stage lubricated range, the high pressure units offer reliability, durability and ease of maintenance.



## Specifications

Model	Bare Unit	Motor		Pressure Max bar g	Receiver Litres	Piston Displacement l/min	Revolutions per minute rpm	Dimensions L x W x H cm	Weight kg
		kW	hp						
<b>High Pressure</b>									
231X30	231	2.2	3.0	35	N/A	211	670	87 x 51 x 51	100
7T2X100	7T2	8.5	12.5	35	N/A	1050	820	124 x 67 x 84	275
15T2X200-35	15T2	15	20	35	N/A	1471	950	143 x 84 x 87	415
15T2X200-70	15T2	15	20	70	N/A	1230	790	143 x 84 x 87	415
15T4X200	15T4	15	20	241	N/A	988	930	150 x 78 x 108	505
H15T4X200	H15T4	15	20	345	N/A	988	930	150 x 78 x 108	525



# Rotary Screw Compressors

2.2 - 5.5 kW

*Innovation*

*Reliability*

*Efficiency*



**Cooling Air Discharge** – The cooling air is discharged from the top of the compressor. This saves the user additional space due to the fact that area around the compressor for ventilation is not required.

**Ease of Maintenance** – Easy removable panels provide access to regular service items such as oil filter, air filter and separator cartridge. The back panel is also removable for major service operations such as airend or belt replacement.

**Common manifold** – Incorporates minimum pressure and thermostatic valves, oil filter and the separator element, resulting in reduced pressure drops and a space saving design.

**Integrated airend/separator unit** – The airend is connected directly to the separator tank resulting in minimal joints, reduced leak paths and a package that is clean and uncluttered.

**Oil level sight glass** – Easily check the current level of coolant in the compressor.



## The Power of Rotary Compressor Technology

	Rotary Compressor	Reciprocating Compressor
<b>Performance</b>	17 – 25 % increase in air flow per kW	Standard volumetric efficiency
<b>Sound Level</b>	64 dB(A)	More than 80 dB(A)
<b>Operation</b>	Continuous demand application	Intermittent application
<b>Air Quality</b>	Filter for trace oil content	High oil content
<b>Air Quality</b>	Integrated dryer option for water removal	High moisture content
<b>Vibration</b>	Rotary technology creates no vibration, increasing component life	High vibration

### Specifications

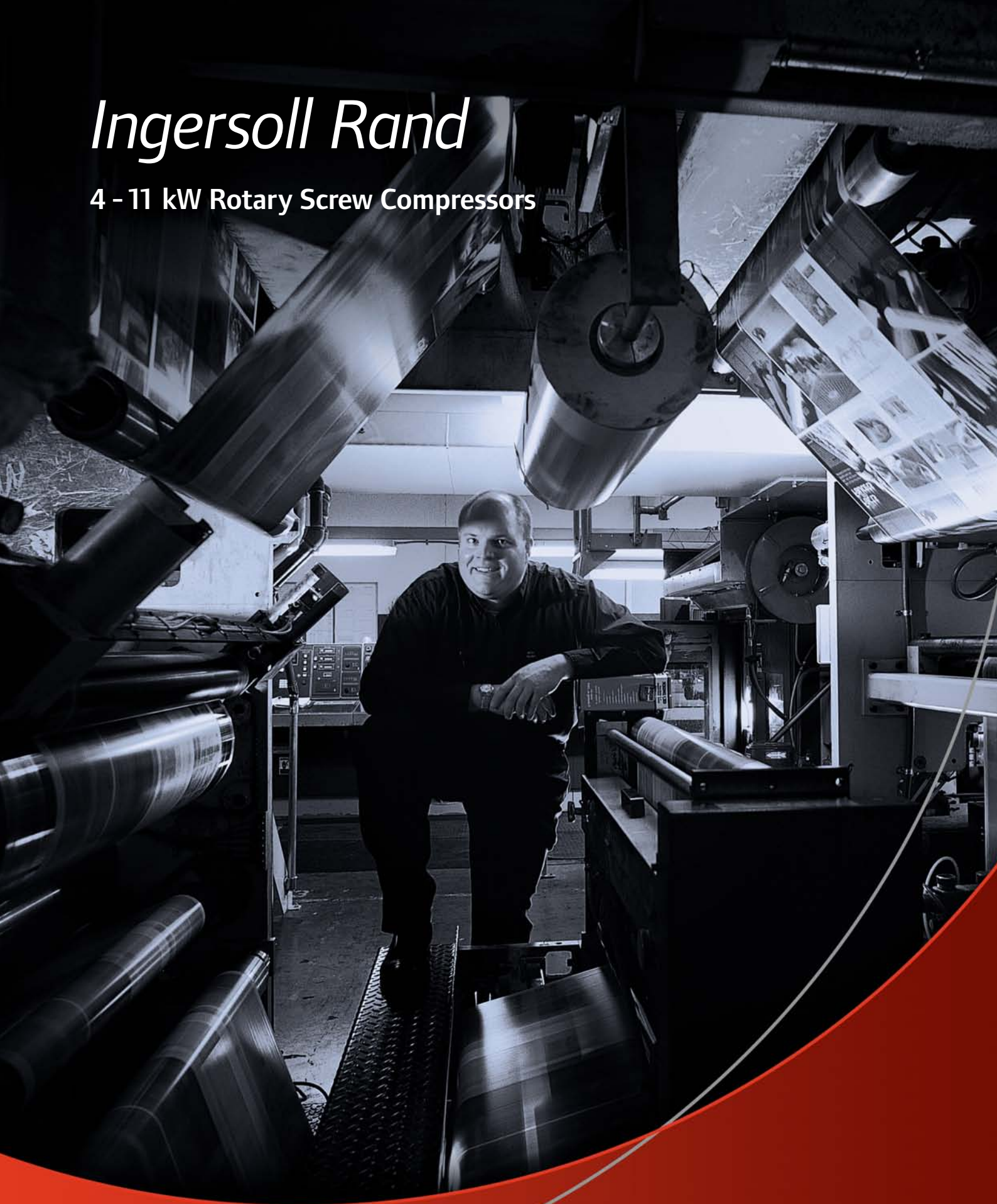
Model	Motor		Pressure Max		Receiver Litres	Starter	Capacity FAD			Noise dB(A)*	Dimensions mm			Weight kg
	kW	hp	bar	g psig			l/min	m <sup>3</sup> /min	cfm		Width	Length	Height	
<b>Standard Unit</b>														
R2.2IU-10-200	2.2	3.0	10	145	200	DOL	241	0.24	8.5	64	555	1393	1111	184
R4IU-10-200	4.0	5.5	10	145	200	DOL	467	0.47	16.5	64	555	1393	1111	186
R4IU-10-200SD	4.0	5.5	10	145	200	S/D	467	0.47	16.5	64	555	1393	1111	186
R5.5IU-10-200SD	5.5	7.5	10	145	200	S/D	623	0.62	22	67	555	1393	1111	187
<b>With Dryer</b>														
R2.2IU-10-200-D	2.2	3.0	10	145	200	DOL	241	0.24	8.5	64	555	1393	1111	210
R4IU-10-200-D	4.0	5.5	10	145	200	DOL	467	0.47	16.5	64	555	1393	1111	212
R4IU-10-200SD-D	4.0	5.5	10	145	200	S/D	467	0.47	16.5	64	555	1393	1111	212
R5.5IU-10-200SD-D	5.5	7.5	10	145	200	S/D	623	0.62	22	67	555	1393	1111	213

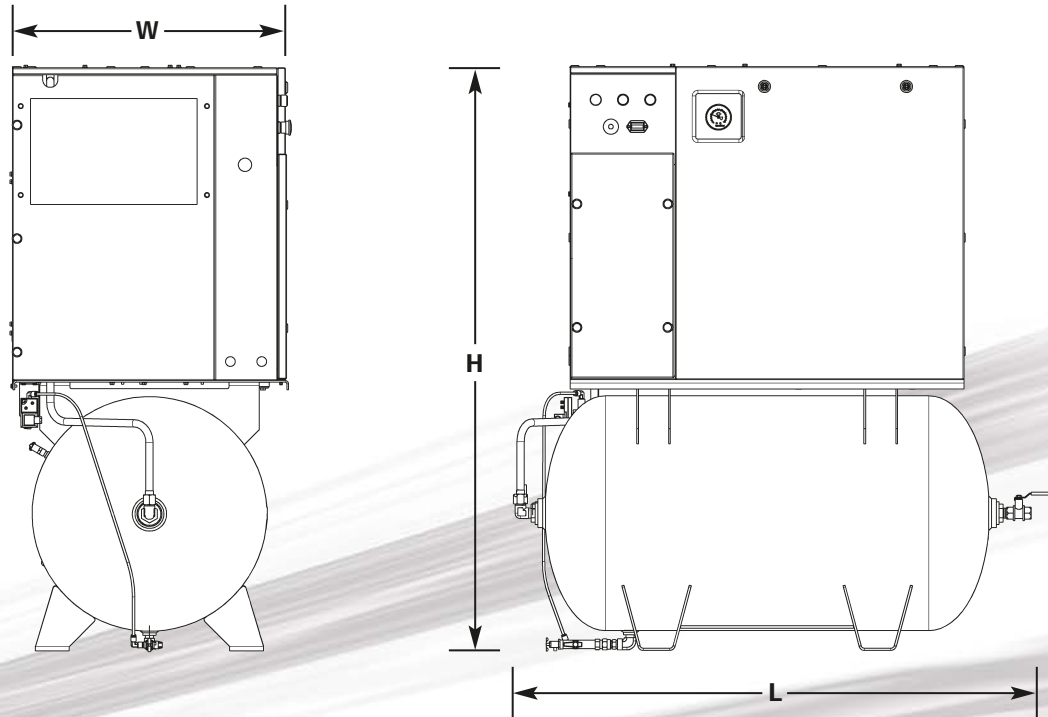
\* Measured as per ISO 2151 ± 3dB(A).

"D" = Dryer, "SD" = Star Delta Starter — All units 400/3/50 electric.

# Ingersoll Rand

4 - 11 kW Rotary Screw Compressors





Dimensions & Weight							Total Air Systems (TAS)		Non-TAS	
50 & 60 Hertz baseplate and receiver mounted units										
	Length		Width		Height		Weight		Weight	
	inch	mm	inch	mm	inch	mm	lbs	kg	lbs	kg
<b>Base mount</b>	41	1042	28.9	734	36	914	725	330	650	295
272 Litre Receiver Tank	51.6	1311	28.9	734	60.7	1541	1,000	455	925	420
500 Litre Receiver Tank	81	2059	28.9	734	60.7	1541	1,080	490	1,000	454

50 Hz Total Air System (TAS)						
Model No	kW	Discharge Pressure		Capacity* m <sup>3</sup> /min	Capacity* CFM	dB(A)†
		Compressor bar g	Package bar g			
UP5-4TAS-8	4	8	7.6	0.55	19.5	65+3
UP5-4TAS-10	4	10	9.7	0.45	16	65+3
UP5-5TAS-8	5.5	8	7.38	0.82	29	65+3
UP5-5TAS-10	5.5	10	9.55	0.74	26	65+3
UP5-5TAS-14	5.5	14.5	14.2	0.48	17	65+3
UP5-7TAS-8	7.5	8	7.59	1.08	38	68+3
UP5-7TAS-10	7.5	10	9.66	0.96	34	68+3
UP5-7TAS-14	7.5	14.5	14.3	0.68	24	68+3
UP5-11cTAS-8	11	8	7.4	1.60	56.5	69+3
UP5-11cTAS-10	11	10	9.6	1.42	50	69+3
UP5-11cTAS-14	11	14.5	14.2	1.08	38	69+3

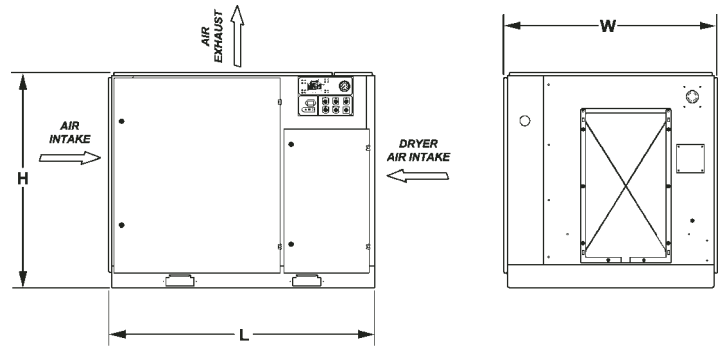
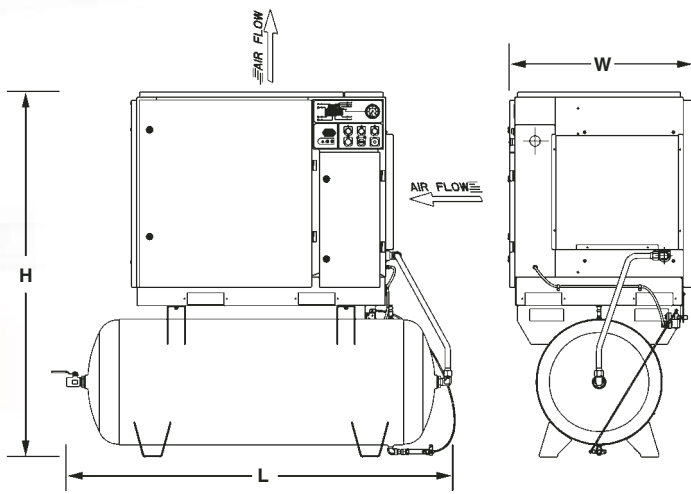
50 Hz — Non-TAS						
Model No	kW	Discharge Pressure		Capacity* m <sup>3</sup> /min	Capacity* CFM	dB(A)†
		Compressor bar g	Package bar g			
UP5-4-8	4	8	7.6	0.55	19.5	65+3
UP5-4-10	4	10	9.7	0.45	16	65+3
UP5-5-8	5.5	8	7.38	0.82	29	65+3
UP5-5-10	5.5	10	9.55	0.74	26	65+3
UP5-5-14	5.5	14.5	14.2	0.48	17	65+3
UP5-7-8	7.5	8	7.59	1.08	38	68+3
UP5-7-10	7.5	10	9.66	0.96	34	68+3
UP5-7-14	7.5	14.5	14.3	0.68	24	68+3
UP5-11c-8	11	8	7.4	1.60	56.5	69+3
UP5-11c-10	11	10	9.6	1.42	50	69+3
UP5-11c-14	11	14.5	14.2	1.08	38	69+3

\*Performance in accordance with ISO1217 1996 annex C

† Measured in accordance with CAGI-pneurop test code PN8NTC2.3. Sound levels per ISO 2151 2004, annex E



performance  
**that pays**



## Industry Leading Performance

Specifications							
Model No	kW	HP	CAPACITY		Bar at discharge		dB(A) <sup>†</sup>
			m <sup>3</sup> /min <sup>††</sup>	(cfm) FAD	without dryer	with dryer	
UP5 11 7	11	15	1.84	65	7.5	7.15*	68+3
UP5 11 8	11	15	1.70	60	8.5	8.15*	68+3
UP5 11 10	11	15	1.54	54	10	9.65*	68+3
UP5 15 7	15	20	2.41	85	7.5	7.15*	68+3
UP5 15 8	15	20	2.36	83	8.5	8.15*	68+3
UP5 15 10	15	20	2.07	73	10	9.65*	68+3
UP5 15 14	15	20	1.61	57	14	13.65*	68+3
UP5 18 7	18.5	25	3.00	106	7.5	7.15*	68+3
UP5 18 8	18.5	25	2.87	101	8.5	8.15*	68+3
UP5 18 10	18.5	25	2.61	92	10	9.65*	68+3
UP5 18 14	18.5	25	2.01	71	14	13.65*	68+3
UP5 22 7	22	30	3.54	125	7.5	7.15*	69+3
UP5 22 8	22	30	3.34	118	8.5	8.15*	69+3
UP5 22 10	22	30	3.11	110	10	9.65*	69+3
UP5 22 14	22	30	2.32	82	14	13.65*	69+3
UP5 22E 7	22	30	3.95	140	7.5	7.3 <sup>‡</sup>	69+3
UP5 22E 8	22	30	3.70	131	8.5	8.3 <sup>‡</sup>	69+3
UP5 22E 10	22	30	3.35	118	10	9.8 <sup>‡</sup>	69+3
UP5 22E 14	22	30	2.75	97	14	N/A	69+3
UP5 30 7	30	40	5.40	191	7.5	7.3 <sup>‡</sup>	69+3
UP5 30 8	30	40	5.10	180	8.5	8.3 <sup>‡</sup>	69+3
UP5 30 10	30	40	4.80	169	10	9.8 <sup>‡</sup>	69+3
UP5 30 14	30	40	3.90	138	14	N/A	69+3
UP5 37PE 7	37	50	6.02	212	7.5	7.2 <sup>‡</sup>	69+3
UP5 37PE 8	37	50	5.89	208	8.5	8.2 <sup>‡</sup>	69+3
UP5 37PE 10	37	50	5.70	201	10	9.8 <sup>‡</sup>	69+3
UP5 37PE 14	37	50	4.73	167	14	N/A	69+3

\* Maximum discharge pressure for package which includes moisture separator, refrigerated dryer and installation with GP filter. Filtration efficiency to 1 micron for solid particles, liquids 0.5 mg/m<sup>3</sup> W at 21°C, and condensate drains.

‡ Maximum discharge pressure for package which includes moisture separator, refrigerated dryer, installation, and condensate drains.

Dimensions & Weights						
Mounting	kW	L	W (mm)	H	Package weight (kg)	
					without dryer	with dryer
Std	11	1285	920	1050	509	—
Baseplate	15	1285	920	1050	509	—
package	18	1285	920	1050	532	—
	22	1285	920	1050	540	—
	22E	1712	1379	1344	992	—
	30	1712	1379	1344	1028	—
	37	1712	1379	1344	1064	—
Baseplate	11	1702	920	1050	—	611
with Dryer	15	1702	920	1050	—	611
	18	1702	920	1050	—	643
	22	1702	920	1050	—	651
	22E	1712	1379	1344	—	1106
	30	1712	1379	1344	—	1142
	37	1712	1379	1344	—	1178
Tank-Mounted	11	2019	920	1757	730	832
500 litre	15	2019	920	1757	730	832
Receiver**	18	2019	920	1757	753	864
	22	2019	920	1757	761	872
Tank-Mounted	11	2132	920	1887	801	903
750 litre	15	2132	920	1887	801	903
Receiver**	18	2132	920	1887	824	935
	22	2132	920	1887	832	943

†† Capacity quoted tested in accordance with ISO 1217 annex C 1996 (CAGI-pneurop PN2CPT2)

\*\* Dimensions same for receiver mounted package either with or without dryer.

† Sound levels per ISO 2151; 2004 annex C

N/A indicates not available

# Ingersoll Rand

37-75 kW Single Stage  
Contact-cooled rotary screw air compressors

*Innovation*

*Reliability*

*Efficiency*





## Features and Options

Category	Description	Standard	Optional
Main motor	High efficiency IP 55	✓	
	High ambient rated 46° C	✓	
	Class F insulation B temperature rise	✓	
Controller	Full compressor diagnostic with alarm history	✓	
	Automatic maintenance indication	✓	
	Load/unload capacity regulation system	✓	
	Power Conservation System	✓	
	Remote monitoring and control by Ethernet connection		✓
	Automatic start/stop shut down timer	✓	
	Remote load and unload	✓	
	Modulation control		✓
	Power Outage Restart (PORO)		✓
	Multiple Compressors System controllers		✓
Power	Visualisation system		✓
	Star/delta starter	✓	✓
	Phase Monitor		✓
	Different voltages (220 - 6600V)		✓
	Anti-condensation heaters for main and fan motors		✓
Lubricant	Thermal protection for main motor		✓
	8000 hr life Ultra Coolant	✓	
	X-tend food grade coolant		✓
Environmental	X-tend filtration system		✓
	Low noise enclosure	✓	
	Designed to help meet ISO 14000 obligations	✓	
	Oil containing frame	✓	
Auxiliary Systems	Heat recovery system (ERS)		✓
	Cooling fan for air-cooled compressors	✓	
	Water separator and drain valve	✓	
	High dust filter		✓
	Water-cooled		✓
Convenience	Seawater-cooled		✓
	Single point connectivity	✓	
	Steel skid, no foundations needed	✓	
Services	12 months factory warranty	✓	
	UltraCare 5 year maintenance program		✓
Documentation	Performance test certificate	✓	
	Witness test certificate		✓

## Specifications

Nominal kW	Free Air Delivery m <sup>3</sup> /min				Length mm	Width mm	Height mm	Weight kg
	ML 7.5 bar g	MM 8.5 bar g	MH 10.0 bar g	MU 13.0 bar g				
37	6.3	6.0	5.6	4.70	1,600	900	1,780	880
45	7.4	7.1	6.5	5.70	1,600	900	1,780	900
55	10.2	9.2	8.5	6.50	2,180	900	1,840	1,375
75	12.9	12.2	11.0	8.42	2,180	900	1,840	1,425

(1) FAD (Free Air Delivery) cfm and m<sup>3</sup>/min are ratings of full package performance in accordance with CAGI-PNEUROP acceptance test standard PN2CPTC2 or ISO1217: 1996 Annex C.





# Nirvana Variable Speed Drive Rotary Screw Compressors

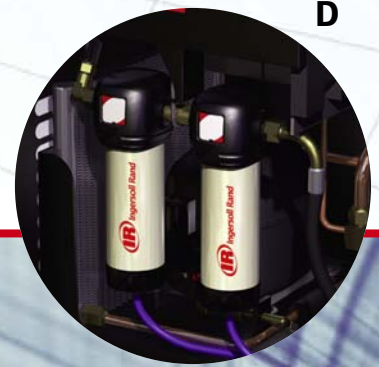
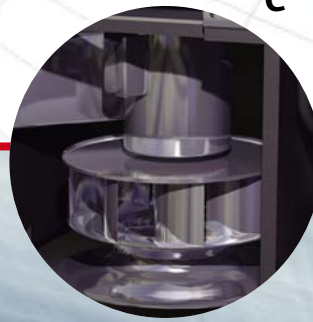
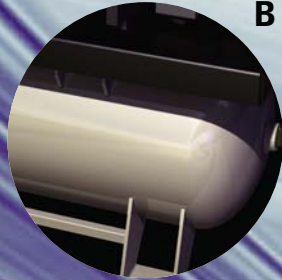
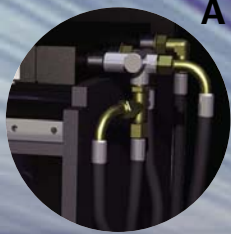
5.5-30 kW

Reliability

Efficiency

Productivity



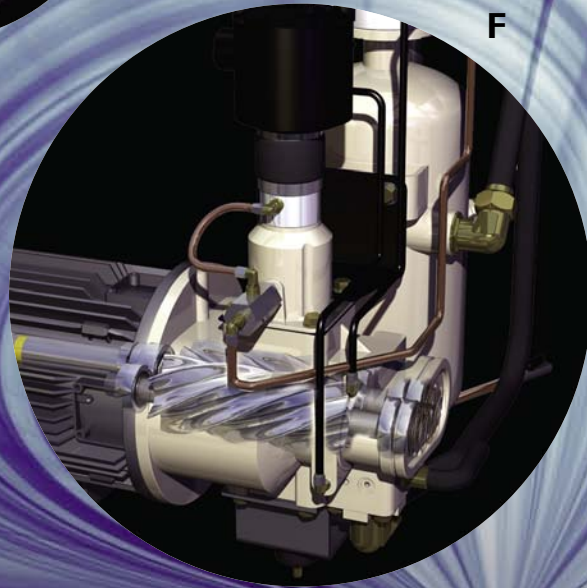
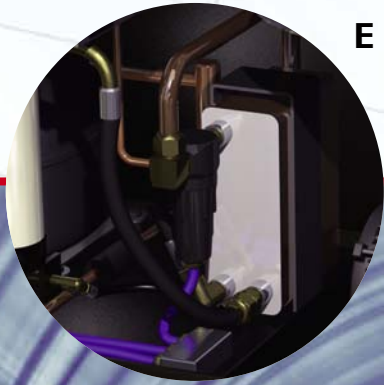


# Nirvana

*Delivering Value Through Integration and Technology*

The standard market compressor package includes a form of variable speed drive and an on-board refrigerated dryer. Only Ingersoll Rand offers a Total Air System in the 5.5-30 kW range. The Nirvana 5.5-30 kW TAS unit comes STANDARD with the following INCLUDED features:

- A Refrigerated Dryer Bypass**
  - Productivity and reliability through continuous operation
- B Integrated Receiver Tank**
  - Floor space and installation time savings
- C Blower Technology**
  - Quiet operation (as low as 65 dB(A)) for environmental and workplace concerns
- D Integrated Coalescing and Particulate Filtration**
  - Increases air quality for a better finished product
- E Energy Efficient Cycling Refrigerated Air Dryer**
  - Reliability of operation and energy savings
- F Direct-Coupled Motor/Airend Configuration**
  - Compact design for additional reliability and reduced maintenance cost



### Model Reference

### Nirvana Performance Data<sup>1</sup>

5.5-11 kW / 7.5-15 hp		Nominal Power		Delivered Pressure Range		Min. Capacity		Max. Capacity	
50 Hz	60 Hz	kW	hp	bar(g)	psi(g)	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm
IRN5K-8	IRN7H-100	5.5	7.5	8.0	115	0.48	17	0.88	31
IRN5K-10	IRN7H-130	5.5	7.5	10.4	150	0.62	22	0.74	26
IRN7K-8	IRN10H-100	7.5	10	8.0	115	0.48	17	1.19	42
IRN7K-10	IRN10H-130	7.5	10	10.4	150	0.62	22	0.99	35
IRN7K-14	IRN10H-200	7.5	10	13.8	200	0.66	23	0.71	25
IRN11K-8	IRN15H-100	11.0	15	8.0	115	0.48	17	1.70	60
IRN11K-10	IRN15H-130	11.0	15	10.4	150	0.62	27	1.45	51
IRN11K-14	IRN15H-200	11.0	15	13.8	200	0.66	23	1.13	40
<b>15-30 kW / 20-40 hp<sup>2</sup></b>									
IRN15K	IRN20H	15.0	20	4.5-10.4	65-150	1.16	41	2.46	87
IRN18K	IRN25H	18.5	25	4.5-10.4	65-150	1.16	41	3.06	108
IRN22K	IRN30H	22.0	30	4.5-10.4	65-150	1.16	41	3.68	130
IRN30K	IRN40H	30.0	40	4.5-10.4	65-150	1.16	41	4.56	161

Maximum Capacity Tested in Accordance with ISO 1217 1996 Annex C. <sup>1</sup> Performance is based on Non-TAS models. <sup>2</sup> Maximum Capacity is based on 8 barg (115 psig).

### Nirvana Dimensions 5.5-11 kW / 7.5-15 hp

	Length		Width		Height		Weight	
	mm	inch	mm	inch	mm	inch	kg	lbs.
Baseplate Unit	1315	51.8	731	28.8	835	32.9	350	780
80 Gal Receiver	1349	53.1	731	28.8	1460	57.5	472	1040
120 Gal Receiver	1897	74.7	731	28.8	1460	57.5	487	1072
272 Litre Receiver	1311	51.6	731	28.8	1460	57.5	458	1008
500 Litre Receiver	2059	81.1	731	28.8	1460	57.5	513	1129

### 15-30 kW / 20-40 hp<sup>1</sup>

Baseplate Unit	1630	64.2	724	28.5	1418	55.8	612	1350
120 Gal Receiver	1857	73.1	724	28.5	2043	80.0	780	1720
240 Gal Receiver	2339	92.1	762	30.0	2219	87.3	858	1891
500 Litre Receiver	2060	81.1	724	28.5	2053	81.0	804	1772
750 Litre Receiver	2156	84.9	750	29.5	2196	86.0	858	1891

80, 120 & 240 Gal receivers manufactured to ASME VIII Class I 272, 500 & 750 Litre receivers manufactured to EN 87-404.

Total Air Systems (TAS) and Standard units have the same dimensions.

<sup>1</sup> 15 kW (20 hp) and 19 kW (25 hp) are 140mm (5.5 inches) less on the height dimension.

# Nirvana Benefits

Nirvana

## One-Year Package Warranty

Nirvana features a one-year factory package warranty covering everything except periodic maintenance.

## Nirvana's Inherent Leak-Free Design

- Nirvana's cast iron separator tank joins the airend using an integral single-point connection.
- Ingersoll Rand has eliminated all external discharge piping and the check valve, making the Nirvana compressor virtually leak free.

## 46°C Ambient-Rated

- Ingersoll Rand's Nirvana compressors are designed to operate in high ambient conditions, making them ideal for locations anywhere in the world.



- Nirvana's high temperature rating ensures fewer nuisance shutdowns caused by fouled coolers.

## Frequency Inverter Drive

This advanced modular drive system gives the Nirvana compressor a controlled, soft start, eliminating current surges and extending component life for increased system reliability.



**MODEL: IRN37- 45K-OF Variable Speed - Rotary Compressor**



**Description**

- Premium efficiency IP23 HPM motor 1,25 service factor
- 96% efficiency rating
- No motor bearings
- Air or Water-Cooled aftercooler with moisture separator
- Variable speed controlled fan motor
- Intellisys controller featuring:
  - Infinite on-off control
  - Self auditing function
  - Air Cooled: 65 - 74+3 dB(A) or water cooled: 63 - 69+3 dB(A)

Length mm	Width mm	Height mm	Weight kg
2080	1115	2024	1624

Model	Capacity		Operating Pressure	
	m³/min	CFM	bar g	psig
IRN37K-OF	2.6 - 5.7	92 - 201	7.0	101
	2.6 - 5.4	90 - 191	7.5	109
	2.6 - 5.3	92 - 187	8.0	116
	2.6 - 5.1	92 - 180	8.5	123
	3.6 - 4.6	127 - 162	10.0	145
IRN45K-OF	2.6 - 6.7	92 - 237	7.0	101
	2.6 - 6.5	92 - 230	7.5	109
	2.6 - 6.4	92 - 226	8.0	116
	2.6 - 6.2	92 - 219	8.5	123
	3.6 - 5.7	127 - 201	10.0	145

Model	Capacity		Operating Pressure	
	m³/min	CFM	bar g	psig
IRN55K-OF	6.2 - 9.4	219 - 332	7.0	101
	6.16 - 9	218 - 318	7.5	109
	6.13 - 8.8	216 - 311	8.0	116
	6.13 - 8.5	216 - 300	8.5	123
	6.5 - 7.8	230 - 275	10.0	145
IRN75K-OF	6.43 - 12.3	227 - 434	7.0	101
	6.41 - 11.9	226 - 420	7.5	109
	6.4 - 11.7	226 - 413	8.0	116
	6.35 - 11.3	224 - 399	8.5	123
	6.8 - 10.6	240 - 374	10.0	145

# Nirvana

## Variable-Speed Drive, Oil-Free Rotary Screw Air Compressors

37-45 kW/50-60 hp



The two-stage Nirvana Oil-Free compressor offers:

### Fewer rotating parts

- Hybrid Permanent Magnet® (HPM®) motor that raises the standard on compressor reliability to an unequalled level.
- No pulleys, belts, couplings or bearings to wear out or that need replacing — the HPM® motor directly drives the compressor, resulting in longer life.
- IR's time-proven, reliable two-stage oil-free airend.

### Unequalled efficiency and reliability

- Simply shuts off, rather than run unloaded.
- Unlimited starts per hour with no decrease in motor life.
- Delivers up to 28% savings in cost of energy as compared to standard fixed-speed oil-free compressor.

### Unequalled performance

- Limits the in-rush current to less than 100%.
- Decreases starting amp requirements, minimising peak charges.
- Variable-speed cooling.
  - Elimination of thermal shock on cooling components.
  - Consistent discharge temperature for enhanced system reliability.
  - Energy consumption is matched to thermal load.

### Reduced total life cycle cost

- From the second stage on, all materials are stainless steel or aluminium to prevent harmful particulate from going downstream.
- Operates at peak performance throughout its lifetime.
- Exclusive UltraCoat rotor and housing coating delivers longer life and 10% energy savings.

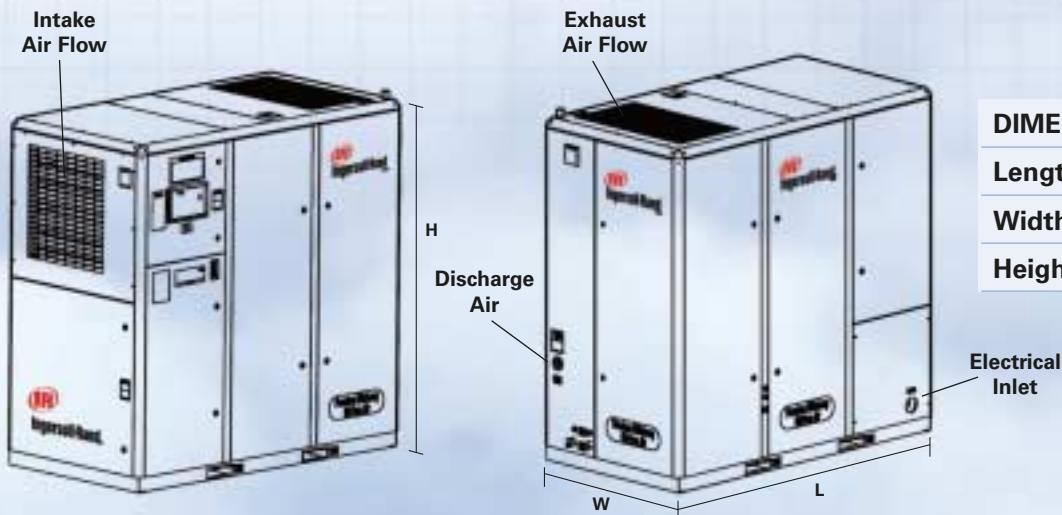




# Nirvana Variable-Speed Drive, Oil-Free Rotary Screw Air Compressors

## 37-45 kW/50-60 hp

Rated Pressure Bar (g) / Psi (g)	Nominal Motor Power kW / hp	Capacity Range		Sound Range Aircooled	Sound Range Watercooled	Weight		Outlet Connection BSPT / NPT
		m <sup>3</sup> /min	cfm	dB(A)	dB(A)	Kg	Lbs	
<b>IRN37K-OF / IRN50H-OF</b>								
7.0 / 100	37 / 50	1.93-5.66	68-200	63-74	63-69	1628 / 3590		1.5 / 1.5
8.6 / 125	37 / 50	1.93-5.07	68-179	63-74	63-69	1628 / 3590		1.5 / 1.5
10.3 / 150	37 / 50	3.45-4.50	122-159	63-74	63-69	1628 / 3590		1.5 / 1.5
<b>IRN45K-OF / IRN60H-OF</b>								
7.0 / 100	45 / 60	1.93-6.71	68-237	63-74	63-69	1628 / 3590		1.5 / 1.5
8.6 / 125	45 / 60	1.93-6.20	68-219	63-74	63-69	1628 / 3590		1.5 / 1.5
10.3 / 150	45 / 60	3.45-5.61	122-198	63-74	63-69	1628 / 3590		1.5 / 1.5



DIMENSIONS	mm	inches
Length	2080	82
Width	1115	44
Height	2023	80

Ingersoll-Rand compressors are not designed, intended or approved for breathing air applications. Ingersoll-Rand does not approve specialised equipment for breathing air applications and assumes no responsibility or liability for compressors used for breathing air service.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll-Rand's standard terms and conditions of sale for such products, which are available upon request.

Product improvement is a continuing goal at Ingersoll-Rand. Designs and specifications are subject to change without notice or obligation.

# Ingersoll Rand

Refrigerated Air Dryers



*Innovation*

*Reliability*

*Efficiency*

## Technical Specifications

Model	Class 5 < 7° C Dew Point		Class 4 < 3° C Dew Point		Nominal Power kW	Standard Power Supply V / Ph / Hz	Air Connections BSP in	Dimensions			Weight kg	Max. Working Pressure bar g
	m³/min FAD 20°C	m³/hr FAD 20°C	m³/min FAD 20°C	m³/hr FAD 20°C				Width mm	Length mm	Height mm		
<b>Air Cooled</b>												
D12IN-A	0.2	12	0.2	9.6	0.12	230/1/50	3/8"	305	360	402	17	14
D25IN-A	0.4	25	0.3	20.0	0.12	230/1/50	3/8"	305	360	402	23	14
D42IN-A	0.7	42	0.6	33.6	0.18	230/1/50	1/2"	389	431	452	25	14
D54IN-A	0.9	54	0.7	43.2	0.18	230/1/50	1/2"	389	431	452	26	14
D72IN-A	1.2	72	1.0	57.6	0.20	230/1/50	1/2"	389	431	452	26	14
D108IN-A	1.8	108	1.4	86.4	0.41	230/1/50	3/4"	420	515	562	33	14
D144IN-A	2.4	144	1.9	115.2	0.47	230/1/50	3/4"	420	515	562	38	14
D180IN-A	3.0	180	2.4	144.0	0.61	230/1/50	3/4"	420	515	562	43	14
D240IN-A	4.0	240	3.2	192.0	0.68	230/1/50	1 1/2"	500	679	978	76	14
D300IN-A	5.0	300	4.0	240.0	1.04	230/1/50	1 1/2"	500	679	978	87	14
D360IN-A	6.0	360	4.8	288.0	1.04	230/1/50	1 1/2"	500	679	978	87	14
D480IN-A	8.0	480	6.4	384.0	1.40	230/1/50	1 1/2"	500	679	978	110	14
D600IN-A	12.0	720	10.0	600.0	1.85	230/1/50	2"	720	780	1425	120	14
D780IN-A	15.6	936	13.0	780.0	1.98	400/3/50	2"	720	780	1425	130	12
D950IN-A	19.0	1140	15.8	950.0	2.58	400/3/50	2"	720	780	1425	150	12
D1300IN-A	26.0	1560	21.7	1300.0	3.40	400/3/50	3"	784	1388	1585	260	12
D1410IN-A	28.2	1692	23.5	1410.0	3.40	400/3/50	3"	784	1388	1585	270	12
D1890IN-A	37.8	2268	31.5	1890.0	5.30	400/3/50	3"	784	1388	1585	300	12
D2520IN-A	50.4	3024	42.0	2520.0	6.88	400/3/50	DN 100	914	1388	1585	330	12
D3000IN-A	60.0	3600	50.0	3000.0	7.81	400/3/50	DN 125	1500	1510	1570	420	12
D4200IN-A	84.0	5040	70.0	4200.0	11.29	400/3/50	DN 125	1500	1510	1570	520	12
D4800IN-A	96.0	5760	80.0	4800.0	12.91	400/3/50	DN 150	1500	1510	1570	620	12
D5400IN-A	108.0	6480	90.0	5400.0	12.91	400/3/50	DN 150	1500	1510	1570	720	12
D6600IN-A	127.0	7618	102.7	6162.0	9.90	400/3/50	DN 150	910	1940	1447	624	14
D9000IN-A	160.5	9630	130.4	7822.0	11.00	400/3/50	DN 200	930	3000	2079	1077	14
D11400IN-A	204.1	12249	165.9	9952.0	14.35	400/3/50	DN 200	930	3000	2079	1102	14
D13500IN-A	261.5	15692	212.9	12772.0	19.84	400/3/50	DN 250	1150	3390	2210	1850	12
<b>Water Cooled</b>												
D4620IN-W	81.8	4909	65.8	3948.0	5.23	400/3/50	DN 150	910	1940	1310	560	14
D5400IN-W	104.7	6282	84.1	5045.0	6.76	400/3/50	DN 150	910	1940	1310	526	14
D6600IN-W	133.6	8015	105.7	6343.0	9.00	400/3/50	DN 150	910	1940	1310	659	14
D9000IN-W	163.8	9825	131.6	7897.0	10.47	400/3/50	DN 200	930	3000	1927	1055	14
D11400IN-W	209.8	12588	168.5	10113.0	14.23	400/3/50	DN 200	930	3000	1927	1065	14
D13500IN-W	267.6	16055	214.6	12876.0	19.40	400/3/50	DN 250	2975	1165	1980	1730	12
D18000IN-W	372.1	22326	300.3	18017.0	23.70	400/3/50	DN 300	3575	1315	2230	2750	12
D22800IN-W	471.5	28291	380.0	22802.0	31.54	400/3/50	DN 300	3575	1315	2230	2785	12

### Notes:

- 1) Data refers to the following conditions: air FAD 20°C/1 bar a, pressure 7 bar g, ambient temperature 25°C, air inlet temperature 35°C, water inlet temperature = 30°C, condensing mean temperature = 40°C, stated pressure dew points in accordance with ISO 8573-1:2001 standards.

#### Maximum Inlet Temperature

D12IN-A to D5400IN-A	60 °C
D6600IN-A to D13500IN-A	65 °C
D4620IN-W to D22800IN-W	65 °C

#### Maximum Ambient Temperature

D12IN-A to D950IN-A	50 °C
D1300IN-A to D13500IN-A	46 °C
D4620IN-W to D22800IN-W	46 °C

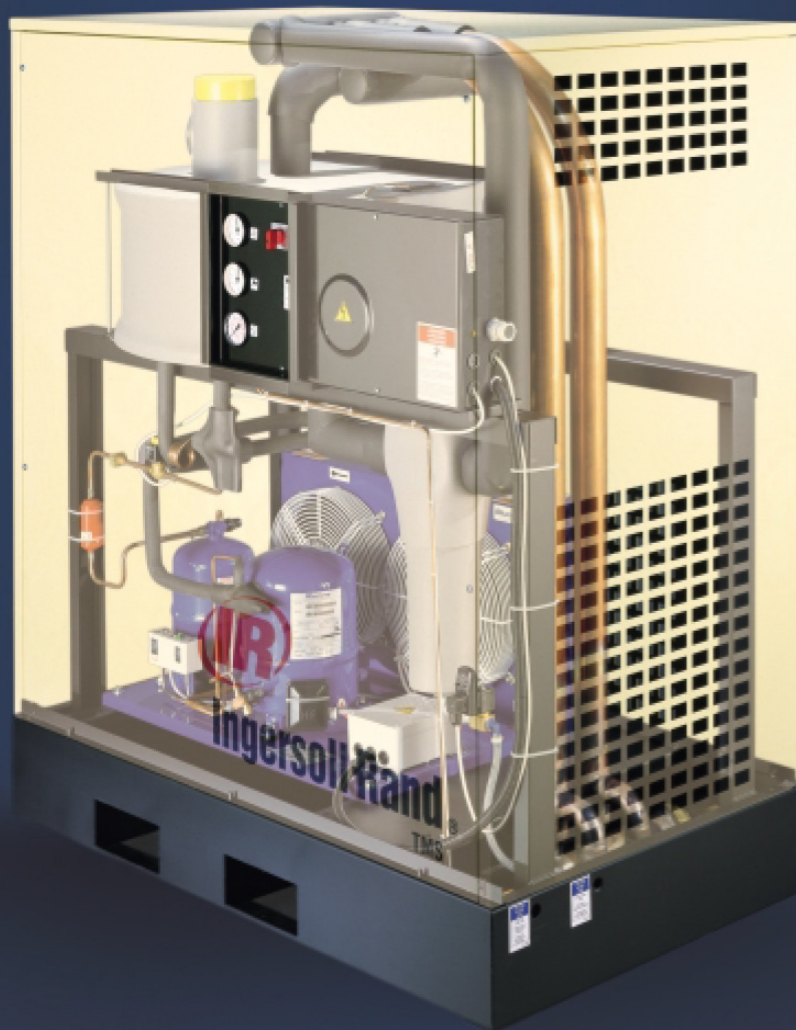
#### Water Connections BSP (inches)

D4620IN-W to D6600IN-W	1 1/2"
D9000IN-W to D22800IN-W	2"

If Pressostatic valve option installed on D13500IN-W, D18000IN-W & D22800IN-W, the inlet water connection changes to two 1 1/2" BSP connections.

# Ingersoll Rand®

## TMS - Thermal Mass™ Cycling Air Dryer



 **Ingersoll Rand®**

## TMS Performance

TMS Model	Capacity 2°C		Capacity 7°C		Capacity 10°C		Power Absorbed kW	Power Absorbed kW	Pressure Drop	Dimensions (mm)			Shipping Weight	Connections Inlet/Outlet
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz				L	W	H		
	m³/min	m³/min	m³/min	m³/min	m³/min	m³/min								
TMS4	0.36	0.38	0.42	0.45	0.45	0.48	0.23	0.21	0.04	457	345	495	38	1/2" M
TMS7	0.56	0.60	0.65	0.70	0.70	0.75	0.30	0.23	0.07	457	345	495	40	1/2" M
TMS12	0.92	0.98	1.06	1.13	1.15	1.23	0.31	0.38	0.12	512	370	570	52	1/2" M
TMS14	1.08	1.16	1.25	1.34	1.35	1.44	0.58	0.55	0.15	512	370	570	58	1/2" M
TMS20	1.66	1.78	1.85	2.00	2.00	2.18	0.31	0.32	0.16	605	575	740	98	1" F
TMS25	2.00	2.14	2.36	2.53	2.55	2.73	0.58	0.38	0.17	605	575	740	103	1" F
TMS31	2.50	2.67	2.93	3.14	3.17	3.39	0.65	0.55	0.22	605	575	740	107	1" F
TMS38	3.00	3.21	3.47	3.71	3.75	4.01	0.68	0.60	0.19	605	575	740	123	1" F
TMS55	4.30	4.60	5.00	5.35	5.41	5.79	1.02	0.87	0.18	895	675	1060	180	1 1/2" F
TMS80	6.50	6.95	7.59	8.12	8.21	8.78	1.12	1.11	0.19	895	675	1060	205	1 1/2" F
TMS105	8.50	9.10	9.82	10.51	10.62	11.36	1.44	1.20	0.19	895	675	1060	240	1 1/2" F
TMS150	12.00	12.84	13.88	14.85	15.00	16.05	1.67	1.59	0.21	1365	815	1617	427	2" F
TMS210	16.80	17.98	19.43	20.79	21.00	22.47	2.50	2.50	0.21	1365	815	1617	510	2" F
TMS250	20.00	21.40	23.13	24.75	25.00	26.75	3.00	2.86	0.23	1365	815	1617	558	2" F
TMS300	24.00	25.68	27.75	29.69	30.00	32.10	3.00	3.71	0.27	1520	815	1805	648	80mmDin 2633
TMS350	28.00	29.96	32.38	34.65	35.00	37.45	4.00	3.71	0.25	1520	815	1805	705	80mmDin 2633
TMS480	38.40	41.00	44.40	47.51	48.00	51.36	5.30	4.76	0.25	1980	1075	2050	1107	100mmDin 2633
TMS550	44.00	47.00	50.88	54.44	55.00	58.85	6.20	6.19	0.23	1980	1075	2050	1179	100mmDin 2633
TMS640	51.20	54.78	59.20	63.34	64.00	68.48	7.20	6.19	0.26	1980	1075	2050	1305	100mmDin 2633
TMS780	62.40	66.77	72.15	77.20	78.00	83.46	8.10	8.76	0.23	1980	1075	2050	1451	125mmDin 2633
TMS1100	88.00	94.16	101.00	108.10	110.00	117.70	2 x 5.8	2 x 6.91	0.20	1950	1496	2095	1510	150mmDin 2633

Performance in accordance with ISO 7183

### REFERENCE CONDITIONS

Inlet Compressed Air Pressure: 7 bar g  
 Inlet Compressed Air Temperature: 35°C  
 Ambient Temperature: 25°C  
 Pressure Dew Point: 2°C

### OPERATING LIMITATIONS

Working Pressure: 2 - 16 bar g  
 Inlet Air Temperature: 55°C  
 Ambient Temperature: 2°C - 43°C (47°C option)

- Shipping weight is approximate
- Water Cooled Units available upon request (TMS20 and above)

### ELECTRICAL SUPPLY

TMS4 - TMS80 230-1-50 Hz  
 TMS105 - TMS1100 400-3-50 Hz

### CORRECTION FACTORS

PRESSURE DEWPOINT		AMBIENT TEMPERATURE		WORKING PRESSURE (bar g)													
		TEMP (°C)	FACTOR	Inlet temp (°C)													
RANGE (°C)	FACTOR	20	1.06	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	1.0	25	1.00	25	1.04	1.07	1.09	1.11	1.15	1.18	1.21	1.23	1.25	1.29	1.31	1.33	1.35
4	1.05	30	0.95	35	0.94	0.96	0.98	1.00	1.04	1.06	1.09	1.11	1.13	1.16	1.18	1.20	1.22
7	1.16	40	0.85	45	0.84	0.85	0.87	0.89	0.93	0.94	0.97	0.99	1.01	1.03	1.05	1.07	1.09
10	1.25	43	0.84	50	0.74	0.76	0.77	0.79	0.82	0.84	0.86	0.88	0.89	0.92	0.93	0.95	0.96
		47	0.80	55	0.66	0.67	0.68	0.70	0.73	0.74	0.76	0.78	0.79	0.81	0.83	0.84	0.85
					0.58	0.60	0.60	0.62	0.64	0.66	0.68	0.69	0.70	0.72	0.73	0.74	0.76

### SELECTION EXAMPLE

To select a dryer for the following conditions use the correction factors given: See Table

Customer Flow Rate 3.5 m³/min  
 Inlet Temperature 45°C  
 System Pressure 6 bar g 0.77 = Correction Factor  
 Dewpoint 4°C 1.05 = Correction Factor  
 Ambient Temperature 35°C 0.9 = Correction Factor  
 Step 1 3.5 m³/min / 0.77 4.55 m³/min  
 Step 2 4.55 m³/min / 1.05 4.33 m³/min  
 Step 3 4.33 m³/min / 0.9 4.81 m³/min  
 Select = TMS80

Nothing contained in this brochure is intended to extend any warranty or representation, expressed or implied, regarding the products described herein. Any such warranties or other terms and conditions of sale shall be in accordance with the Ingersoll-Rand standard terms and conditions of sale for such products which are available upon request.

Product improvement is a continuing goal at Ingersoll-Rand. Designs and specifications are subject to change without notice or obligation.

## Water - the essence of life, curse of the pneumatics industry!

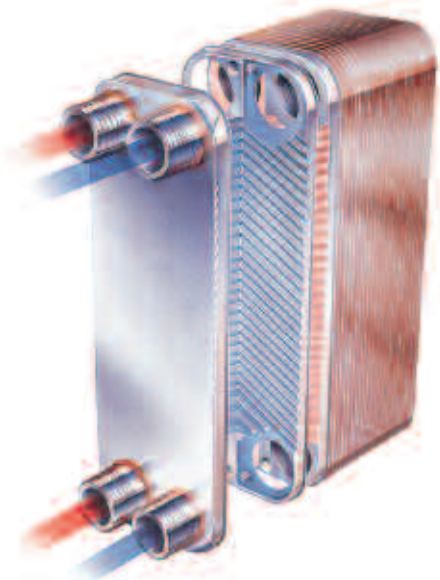
Why is water so much a poison to industrial compressed air users, and where does it come from? Water in a compressor system is simply a nuisance. It makes things rust, causes seizures, washes away lubricant from air tools, causes inaccuracies and much more, resulting in product wastage, inconvenient malfunctions and costly downtime.

This water comes from the air that originally entered the compressor. Although it entered as a harmless vapour, it changes its state during compression and aftercooling resulting in water droplets forming which in turn causes all the associated problems.

Installing a COMPACT dryer within the process will prevent these costly diseases by eliminating almost all of the harmful water and return only clean and dry air into the network which will ensure the plant can operate efficiently and reliably with minimal running costs.

## The COMPACT range: simplicity, efficiency and reliability using modern concepts in air-drying.

Many refrigerated dryers may look the same but the new COMPACT range is far from being just another dryer. The use of the latest, and highly efficient, stainless steel plate type heat exchangers, designed into a refined package, results in a dryer that has an excellent performance, is simple to operate, and will keep doing its job reliably for many years. All this from such a compact cabinet.



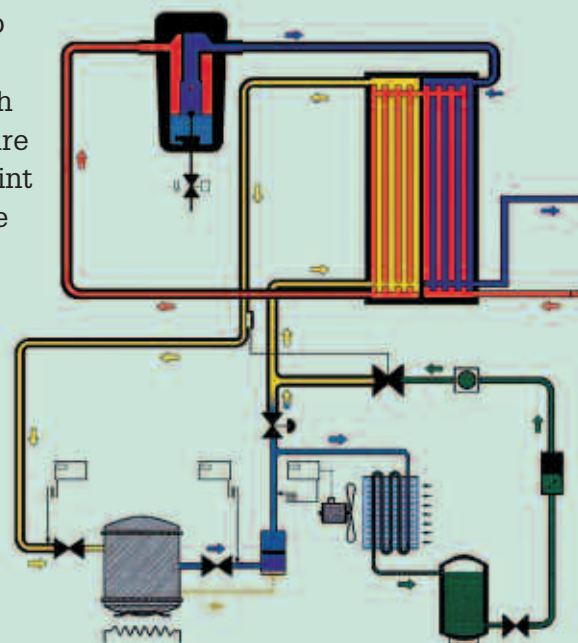
## The principles of operation

Wet compressed air enters the dryer and is directed to the single monobloc plate heat exchangers.

The air entering is cooled down by the outgoing cold and dried air, which reduces the load on the refrigeration compressor, saving energy costs.

The air now passes to the "air to refrigerant" heat exchanger, which reduces its temperature to the pre-set dew point (normally +3°C) where water droplets form. All the condensed moisture is separated from the air in the high efficiency water separator where it is discharged to a drain.

Finally, the cool and dry air is reheated by thermally mixing it with the incoming air that also reduces its relative humidity, thus preventing pipework corrosion and annoying condensation on the downstream pipework.



## TECHNICAL SPECIFICATION

COMPACT Model Nr.	Capacity at 3°C PDP		Capacity at 7°C PDP		Capacity at 10°C PDP		Power absorbed kW	Air Connections	Weight kg	Dimensions (mm) L x W x H
	cfm	m3/min	cfm	m3/min	cfm	m3/min				
7	25	0.7	28	0.79	32	0.9	0.2	1/2" BSPF	30	512x370x512
10	34	0.96	38	1.08	42	1.2	0.21	1/2" BSPF	31	512x370x512
12	42	1.2	48	1.35	53	1.5	0.24	1/2" BSPF	34	512x370x512
16	57	1.6	64	1.8	71	2.0	0.29	1/2" BSPF	35	512x370x512
20	71	2.0	79	2.25	88	2.5	0.52	1,5" BSPF	50	492x562x797
30	106	3.0	119	3.38	134	3.8	0.58	1,5" BSPF	55	492x562x797
45	159	4.5	179	5.06	198	5.6	0.63	1,5" BSPF	65	492x562x797
65	230	6.5	256	7.26	286	8.1	1.02	1,5" BSPF	75	492x562x797
75	265	7,5	296	8,4	328	9,3	1,37	2" BSPF	80	562x492x980
90 mono	318	9,0	357	10,1	396	11,2	1,72	2" BSPF	85	562x492x980
90	318	9,0	357	10,1	396	11,2	1,70	2" BSPF	140	1005x776x908
110	381	10,8	431	12,2	477	13,5	1,89	2" BSPF	150	1005x776x908
155	547	15,5	614	17,4	685	19,4	2,27	2,5" BSPF	170	1005x776x908
180	636	18,0	717	20,3	795	22,5	2,44	2,5" BSPF	180	1005x776x908
225	795	22,5	893	25,3	992	28,1	3,19	2,5" BSPF	190	1005x776x908

*Performances are in accordance with ISO 7183.*

### REFERENCE CONDITIONS

Inlet Compressed air pressure:	7 bar g
Inlet compressed air temperature:	35°C (100%RH)
Ambient temperature:	25°C
Minimum Pressure Dew point:	3°C

### CORRECTION FACTORS

For operating outside of reference conditions.

Operating Pressure(bar g)	5	6	7	8	9	10
Coefficient (Pc)	0,96	0,98	1	1,04	1,08	1,09
Inlet temperature (°C)	30	35	40	45	50	55
Coefficient (Ic)	1,11	1	0,89	0,79	0,7	0,62
Ambient temperature (°C)	25	30	35	40	43	
Coefficient (Ac)	1	0,95	0,9	0,85	0,84	

### OPERATING LIMITATIONS

Working Pressure	2 to 16 bar g
Inlet Air Temperature:	max. 55°C
Ambient Temperature:	0°C to 43°C (option: 47°C)

### EXAMPLE

Desired Capacity:	12m3/min
Operating Pressure:	10 bar g
Inlet air temperature:	40°C
Ambient temperature:	35°C
Required Capacity	= Nominal Capacity/ (Pc *Ic *Ac)
	= 12 m3/min / (1,09 x 0,89 x 0,9)
	= 13,74 m3/min
Dryer Selection is:	COMPACT 155 for 3°C PDP



# Higher Air Quality Delivered Economically

- *Minimise: Contaminants, corrosion and energy use*
- *Reduce: Costs by treating only the air you need*
- *Deliver: Outstanding performance with low noise levels*
- *Sustain: High efficiency with easy maintenance*

## Improve air quality output and reduce operating costs

Ingersoll Rand's innovative modular air dryers make it easier and more affordable than ever to deliver high-quality compressed air for instrumentation, process equipment, or production lines – virtually wherever it is needed:

- High-efficiency filtration and desiccant bed adsorption provide clean, dry air.
- Compact, fully integrated units install at point-of-use, so you pay for drying only the air required.
- Conservative pressure drop lowers power costs.
- Optional energy management system for larger units reduces purge air during partial loads.

## Enhance Productivity

Our dryers feature standard ISO Class 2 dew point performance, with optional ISO Class 1 to meet the most stringent requirements. This helps prevent corrosion and minimises production disruptions or losses due to moisture or contamination. Easy on-site maintenance – less than 15 minutes after 12,000-hours of use – gets you back on line quickly.

D51M - D341M  
Modular Dryers



D411M - D2991M  
Modular Dryers

## UltraCare.....helping you to maintain a healthy business

A lot can (and will,) happen in the life of a compressed air system. With ever increasing demands for machine availability in today's industries, reducing production losses due to unplanned maintenance and downtime is essential.

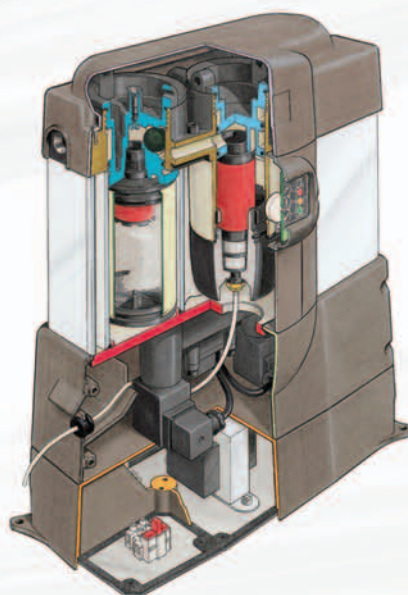
That is why we offer UltraCare. A responsive, flexible, preventative maintenance program, designed to provide Ingersoll Rand authorised maintenance to ensure increased system reliability. UltraCare helps to eliminate unexpected downtime and costly repairs.



### Extend Performance Reliability

In addition to being efficient, these simple and easy-to-maintain modular dryers are also an excellent long-term investment:

- Extruded aluminum construction with Alocrom and epoxy painting prevents corrosion.
- Compact, modular designs have few moving parts.
- Proven, reliable electronic controls, with control panel indication for preventive maintenance, help ensure long-lasting performance.



**Built-in high-efficiency filtration** to deliver optimum air quality and easy maintenance. (Filters shipped loose on models D41IM and above).

### Promote Environmental Safety

Noise levels <75 dB(A) are so low that Ingersoll Rand modular dryers can be installed right in the work environment. In addition, the dryer's remote exhaust feature offers further enhanced noise suppression. These refrigerant-free units are also designed with NEMA 4/IP-66 enclosures and in accordance with ASME, PED, CSA, UL, and CRN standards.

Progress is *greener* with Ingersoll Rand

Ingersoll Rand offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs and decrease harmful environmental emissions. From air compressors that reduce energy consumption to electric-powered golf cars with near-zero emissions, Ingersoll Rand provides the knowledge, experience and solutions to help our clients achieve their sustainability goals.

### Technical Specifications (Standard Electrics 230V / 1Ph / 50 Hz)

Model	Capacity		Inlet/Outlet Connection BSP	Max. Pressure		Dimensions			Weight kg
	cfm	m <sup>3</sup> /hr		psig	bar g	Width	mm Length	Height	
D5IM	3	5	3/8"	175	12	149	289	422	11
D14IM	8	14	3/8"	175	12	149	289	616	16
D25IM	15	25	3/8"	175	12	149	289	906	23
D34IM	20	34	3/8"	175	12	149	289	1098	28
D41IM	24	41	1/2"	232	16	302	284	837	32
D54IM	32	54	1/2"	232	16	302	284	1003	37
D71IM	42	71	1/2"	232	16	302	284	1168	42
D90IM	53	90	1/2"	232	16	302	284	1333	47
D110IM	65	110	1/2"	232	16	302	284	1499	52
D150IM	88	150	1"	189	13	566	220	1433	60
D180IM	106	180	1"	189	13	566	220	1433	84
D221IM	130	221	1"	189	13	566	220	1599	90
D299IM	176	299	1"	189	13	566	220	1847	104

Capacity is on the basis of 35°C (95°F) inlet temp and 7 bar g (100psig) 7 bar g inlet pressure.

# Enlightened Filtration Technology

Ingersoll Rand delivers next-generation improvements in filter performance, efficiency, reliability and quality.

## Element Replacement Indicator (ERI) **A**

A visual indication of when it's time to change the filter element rated to IP55 and powered by (2) standard AA batteries.

## Smooth Corners **B**

90° elbow to direct air into the filter element, significantly reducing turbulence and pressure losses.

## High Efficiency Drainage Layer **C**

Improved liquid drainage properties and excellent chemical compatibility.

## Deep Pleating **D**

Reduces air flow velocity within the media – lower flow velocities improve filtration efficiency and reduce pressure losses.

## Flow Diffuser **E**

Provides turbulent-free distribution of air flow throughout the filter element.

## Low Profile Endcap **F**

Removes coalesced liquid from the air flow path increasing liquid removal efficiency and providing more usable filtration surface area.

## Surface Tension Breakers **G**

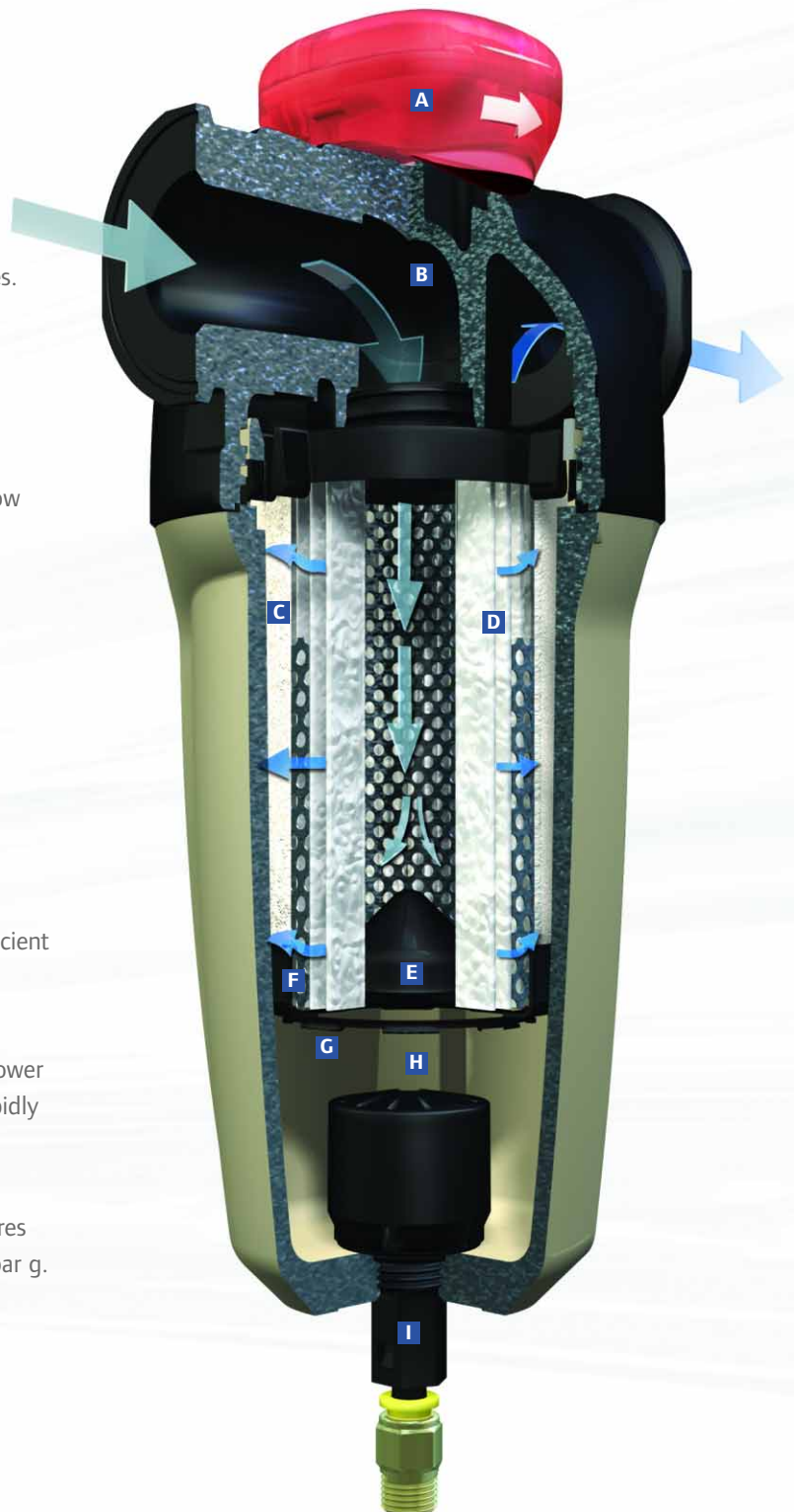
Prevents liquid from sticking, resulting in fast and efficient drainage of coalesced liquids.

## Drainage Ribs **H**

Vertical ribs cast into the filter bowl compress the lower part of the filter element allowing bulk liquid to rapidly drain away.

## Drain **I**

Reduces contamination clogging by 75% and features higher temperature and pressure ratings 80°C/17 bar g.



# Filters...just the way you need them

All of this great new technology wouldn't provide value if we didn't deliver it in precisely the filter type you need. That's why we offer dust filters, general purpose filters, coalescing filters and activated carbon filters.

## Specifications

Filter Grade A, G, H, D	Port Size BSPT in	Flow Rates 7 bar g/100 psig		Dimensions				Weight kg
		m <sup>3</sup> /min	cfm	A mm	B mm	C mm	D mm	
F35 I	1/2"	0.58	21	76	46	205	25	1
F71 I	3/4"	1.18	42	98	53	261	32	1
F108 I	3/4"	1.80	64	98	53	261	32	1
F144 I	1"	2.40	85	129	61	290	38	2
F178 I	1"	2.97	105	129	61	290	38	2
F212 I	1"	3.53	125	129	61	290	38	2
F395 I	1 1/2"	6.58	233	129	61	381	38	3
F424 I	1 1/2"	7.07	250	129	61	381	38	3
F577 I	2"	9.62	339	170	74	500	51	6
F791 I	2"	13.18	466	170	74	500	51	6
F985 I	2"	16.42	580	170	74	500	51	6
F1155 I	3"	19.25	680	205	86	572	57	12
F1529 I	3"	25.48	900	205	86	673	57	14
F1817I	3"	30.28	1,070	205	86	756	57	16
F2124 I*	3"	35.40	1,250	205	86	912	57	18
F2378 I**	3"	39.63	1,400	205	86	912	57	18
Flange Size								
F770 I	DN 50	12.8	450	285	85	500	300	8
F1320 I	DN 65	22.0	780	285	90	690	300	11
F2100 I	DN 80	35.0	1,235	340	100	880	300	16
F2800 I	DN 100	46.0	1,620	485	333	1,264	300	125
F4200 I	DN 125	70.0	2,800	630	375	1,274	300	196
F5700 I	DN 150	95.0	3,300	630	395	1,384	300	210
F7500 I	DN 150	125.0	4,400	676	414	1,434	300	264
F9300 I	DN 150	155.0	5,400	724	449	1,503	300	314
F11000 I	DN 200	185.0	6,500	724	461	1,503	300	320
F14200 I	DN 200	240.0	8,400	885	515	1,565	300	530
F19900 I	DN 250	330.0	11,600	950	525	1,573	300	670
F31000 I	DN 300	520.0	18,400	1,050	645	1,702	300	1,083

\*H only \*\*A, G, D only

### Grade A - Activated Carbon Filtration

Oil vapour and hydrocarbon odour removal, providing a maximum remaining oil content of <0.003 mg/m<sup>3</sup> (excluding methane) @ 21 °C. (Precede with Grade H filter)

### Grade G - General Purpose Protection

Particle removal down to 1 micron including coalesced liquid, water and oil, providing a maximum remaining oil aerosol content of 0.6 mg/m<sup>3</sup> @ 21 °C.

### Grade H - High Efficiency Oil Removal Filtration

Particle removal down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m<sup>3</sup> @ 21 °C. (Precede with Grade G filter)

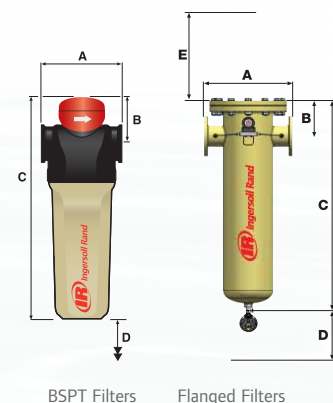
### Grade D - General Purpose Dust Filtration

BSPT Filters: Dust particle removal down to 1 micron.  
Flanged Filters: Dust particle removal down to 5 microns.

**Maximum Operating Pressure**  
BSPT Filters 17 bar g (250 psig)  
Flanged Filters 16 bar g (232 psig)

**Minimum Recommended Operating Temperature = 1 °C**

**Maximum Recommended Operating Temperatures**  
Grade G, H & D = 80 °C  
Grade A = 30 °C



Line	bar g	1	2	3	5	7	9	11	13	15	16	17
Pressure	psig	15	29	44	73	100	131	160	189	218	232	250
Correction Factors		0.38	0.53	0.65	0.85	1.00	1.13	1.25	1.36	1.46	1.51	1.56

# PolySep, the Responsible Choice

Ingersoll Rand

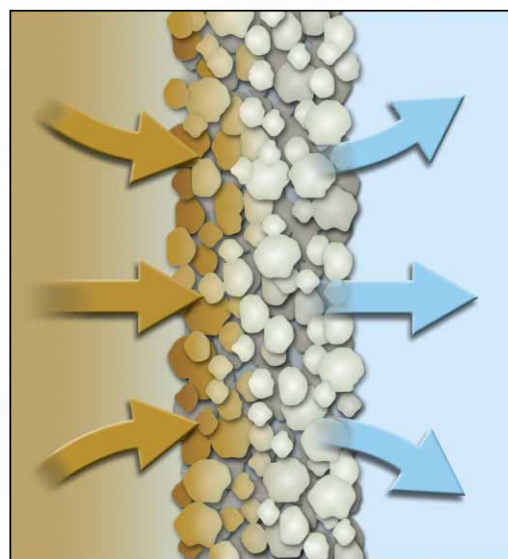
Environmentally sound, reliable and easy to maintain, PolySep Oil Water Separators **remove the broadest range of coolants** from compressor condensate.

## Staying Clean by Going Green

Compressor systems produce large amounts of condensate. This condensate contains lubricant contaminants that should be disposed of properly. Ingersoll Rand PolySep Oil Water Separators can help your company be strong stewards of the environment while reducing your annual waste removal costs. When properly installed and sized correctly, the PolySep separators are capable of providing condensate discharge levels as low as 15 mg/l. Our separators feature non-corrosive materials and do not require electrical power for operation, further reducing environmental burdens. You can count on PolySep Oil Water Separators to get you... and keep you...green.

## Advanced Media Separation Technology

The key to the PolySep Oil Water Separators' unrivaled performance is our unique, specially-coated Zeolite adsorption media. This proprietary filtration media effectively separates and permanently adsorbs virtually all lubricants, including highly emulsified lubricants like polyglycols, the most difficult lubricants to separate. Competitive systems simply can't handle polyglycols without requiring expensive, oversized separators. From mineral oils, PAOs and polyolesters to diesters and polyglycols, the PolySep Oil Water Separator provides the broadest range of performance and efficiency.



The specially-coated Zeolite filter media permanently adsorbs the broadest range of contaminants, such as oil or other coolants, while letting clean water pass.

## Simple and Reliable Operation

Built on a tradition of dependability, the PolySep family of separators uses a simple yet effective design. With few moving parts, maintenance is minimal and virtually downtime-free! The easy to remove modules make replacement simple, and only need to be replaced once a year or after 4,000 hours of operation for optimal performance. Larger systems also include a flow divider that automatically manages condensate volume for multiple units.

Progress is  greener with Ingersoll Rand

## PolySep...sized for every application



Performance Data		Compressor Capacity													
Model	Screw Compressors										Reciprocating Compressors				
	Polyglycol		Mineral Oil		Synthetic Oil		PAO		Ester		Mineral Oil		Diester		
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	
PSG-7	2	60	2	60	2	60	2	60	2	60	2	60	2	60	
	2	60	2	60	2	60	2	60	2	60	2	60	2	60	
	2	60	2	60	2	60	2	60	2	60	2	60	2	60	
PSG-15	5	175	24	850	18	640	24	850	18	640	12	425	10	361	
	5	175	13	450	10	340	13	450	10	340	6	225	5	191	
	5	175	8	290	6	215	8	290	6	215	4	145	3	123	
PSG-30	11	390	48	1,700	36	1,275	48	1,700	36	1,275	24	850	20	723	
	11	390	25	900	19	685	25	900	19	685	13	450	11	383	
	11	390	16	575	12	430	16	575	12	430	8	288	7	244	
PSG-60	21	750	96	3,400	72	2,550	96	3,400	72	2,550	48	1,700	41	1,445	
	21	750	51	1,800	39	1,370	51	1,800	39	1,370	25	900	22	765	
	21	750	33	1,150	24	860	33	1,150	24	860	16	575	14	489	
PSG-90	27	950	144	5,100	108	3,825	144	5,100	108	3,825	72	2,550	61	2,168	
	27	950	76	2,700	58	2,050	76	2,700	58	2,050	38	1,350	32	1,148	
	27	950	49	1,725	37	1,300	49	1,725	37	1,300	24	863	21	733	
PSGK-120 not shown	42	1,500	193	6,800	144	5,100	193	6,800	144	5,100	96	3,400	82	2,890	
	42	1,500	102	3,600	78	2,740	102	3,600	78	2,740	51	1,800	43	1,530	
	42	1,500	65	2,300	49	1,725	65	2,300	49	1,725	33	1,150	28	978	
PSGK-180 not shown	54	1,900	289	10,200	217	7,650	289	10,200	217	7,650	144	5,100	123	4,335	
	54	1,900	153	5,400	116	4,100	153	5,400	116	4,100	76	2,700	65	2,295	
	54	1,900	98	3,450	74	2,600	98	3,450	74	2,600	49	1,725	42	1,466	

  Cold Climate: 16°C (60°F), 60% RH    
   Mild Climate: 27°C (80°F), 60% RH    
   Hot Climate: 32°C (90°F), 70% RH

Select product size based on worst case ambient conditions for the location.

Specifications												
Model	CPN	Replacement Module CPN	Inlet NPT (mm)	Outlet NPT (mm)	Maximum Water Flow (Litres/hr)	Maximum Water Volume (Litres)	Max Absorbed Lubricant (kg)	Width	Length	Height	Diameter	
PSG-7	38456992	38457008	13	13	2	4	1	-	-	527	292	
PSG-15	38339040	38339057	13	19	12	57	5	673	483	762	-	
PSG-30	38465605	38465712	13	19	24	114	10	864	533	991	-	
PSG-60	38465621	38465761	13	19	47	227	20	890	787	991	-	
PSG-90	38465639	38469052	13	19	70	341	29	890	787	1143	-	
PSGK-120	38465647	38465761	13	19	94	454	39	1829	787	991	-	
PSGK-180	38465654	38469052	13	19	141	681	58	1829	787	1143	-	

Prefilter is built in; ratings are based on 4 ppm oil carryover; filter life based on 4,000 operating hours per year, one filter change.

# Aftercoolers

Creating the finest quality products is one way to keep you ahead of your competition. Because superior products are made with superior equipment, it is necessary for you to keep that equipment running smoothly.

Take compressed air equipment for example. There are certain quantities of water and solid particles found in ambient air and when this air is compressed, the contaminants remain. If not removed, the water and solid contaminants can be harmful to your pneumatically operated equipment.

Also, through the compression process, the air becomes hot – too hot for standard filtration. The end result is poor product quality.

Ingersoll-Rand can alleviate this problem with the ABC/WBC Series of Aircooled, Watercooled Aftercoolers.

Through the action of cooling the air, water condenses and drains away, taking many of the other contaminants with it.

The result is cleaner, cooler air that, combined with further filtering and drying, will provide the best quality air and maximises the performance of your air operated processes.

## Operation

Compressed air flows into the heat exchanger. Cooling media flows over the exchanger and as the air cools, the moisture condenses. When the air reaches the coolers separator, centrifugal motion causes the condensed water and other contaminants to hit the cylinder walls and drip away to the drain.



WBC500RH



ABC280

## Technical Specifications

Model	Capacity m <sup>3</sup> /min FAD*	Dimension mm			Weight kg	Air/water connection		Max Pressure (bar g)
		A	B	C		Air Inlet/Outlet	Water	
WBC-12FH	1.2	827	430		4	3/4" BSP	3/8" BSP	16
WBC-35FH	3.5	1110	525		8	1-1/2" BSP	1/2" BSP	16
WBC-65FH	6.5	1130	533		11	1-1/2" BSP	3/4" BSP	16
WBC-90FH	9.0	1191	713		15	2" BSP	3/4" BSP	16
WBC-135FH	13.5	1221	720		20	2" BSP	3/4" BSP	16
WBC-180FH	18.0	1409	885		50	DIN 80/80	1" BSP	12
WBC-270FH	27.0	1473	885		96	DIN 100/80	1-1/4" BSP	12
WBC-360FH	36.0	1473	885		102	DIN 100/80	1-1/4" BSP	12
WBC-500FH	50.0	1969	1145		139	DIN 125/125	1-1/4" BSP	12
WBC-600FH	60.0	1969	1215		187	DIN 150/125	1-1/4" BSP	12
WBC-900FH	90.0	2093	1315		269	DIN 200/150	1-1/4" BSP	12
WBC-30RH	3.0	1133	590		27	1-1/2" BSP	1/2" BSP	16
WBC-70RH	7.0	1133	590		29	1-1/2" BSP	1/2" BSP	16
WBC-110RH	11.0	1652	758		39	2" BSP	3/4" BSP	16
WBC-160RH	16.0	1654	775		51	2" BSP	3/4" BSP	16
WBC-220RH	22.0	1873	1045		108	DIN 100/100	1" BSP	12
WBC-280RH	28.0	1873	1045		112	DIN 100/100	1" BSP	12
WBC-380RH	38.0	1969	1145		137	DIN 125/125	1-1/4" BSP	12
WBC-500RH	50.0	1969	1145		139	DIN 125/125	1-1/4" BSP	12
WBC-600RH	60.0	1989	1225		190	DIN 150/150	1-1/4" BSP	12
WBC-900RH	90.0	2093	1325		309	DIN 200/200	1-1/4" BSP	12
WBC-1300RH	130.0	2083	1420		372	DIN 250/200	1-1/2" BSP	10
WBC-1700RH	170.0	2153	1620		440	DIN 300/200	2" BSP	10
WBC-2000RH	200.0	2233	1820		575	DIN 350/200	2" BSP	10
WBC-2500RH	250.0	2603	1995		640	DIN 350/200	DIN 65	10
WBC-3500RH	350.0	2809	2415		985	DIN 450/250	DIN 80	10
WBC-4500RH	450.0	3545	2615		1290	DIN 500/300	DIN 100	10
WBC-5500RH	550.0	3705	3045		1815	DIN 600/300	DIN 100	10

ABC-6	0.6	475	794	216	14	3/4"		16
ABC-12	1.2	545	895	277	17	3/4"		16
ABC-25	2.5	715	1140	403	31	1 1/2"		16
ABC-35	3.5	715	1140	403	37	1 1/2"		16
ABC-60	6	775	1336	453	39	1 1/2"		16
ABC-90	9	908	1361	445	55	2"		16
ABC-140	14	1075	1523	500	80	2"		16
ABC-180	18	1516	1857	560	120	DN 80/80		12
ABC-280	28	1880	1807	560	190	DN 100/100		12
ABC-360	36	1980	2075	560	245	DN 100/100		12
ABC-400	40	2000	1983	1035	405	DN 150/150		9
ABC-480	48	3128	1983	1032	560	DN 150/150		9
ABC-640	64	3218	1983	1040	620	DN 200/200		9
ABC-750	75	3218	1983	1040	640	DN 200/200		9

### Model No. Key

WBC - Watercooled

ABC - Aircooled

FH - Fixed tube bundle, horizontal configuration

RH - Removable tube bundle, horizontal configuration

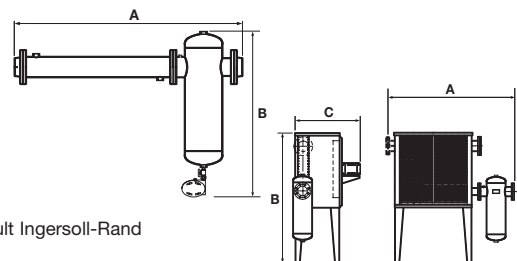
\*Standard cooler material only  
(for stainless steel and copper nickle consult  
Ingersoll-Rand.)

### Reference Conditions

Ambient 1.013 bar @ 25°C & 60% RH  
Air Inlet 7 bar g @ 120°C

### Operating Limitations

Minimum operating pressure 0.5 bar g  
WBC Maximum inlet temperature 200°C  
ABC Maximum inlet temperature 150°C  
(For higher temperatures up to 200°C consult Ingersoll-Rand)  
Minimum water temperature 1°C  
Maximum water temperature 90°C



Ingersoll-Rand air compressors are not designed, intended, or approved for breathing air. Compressed air should not be used for breathing air applications unless treated in accordance with all applicable codes and regulations.

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22125702

Printed in UK

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03/18/2011

Versie II

### Air Solutions

Heavy Industrial Systems  
Strada Provinciale Cassanese, 108  
I-20060 Vignate, Milano  
Italy



# For Economic System Control



## PACE - protection and energy savings

- 1/2", 1" and 2" BSP models
- Control entire air system pressure from one compact unit
- Regulates the demand side to reduce leaks and artificial demand
- Energy savings by not over pressurising system
- Losing air through leaks at 5.5 barg is better compared to 8.5 barg
- Protection for all down stream equipment - no over pressurisation
- Lowers compressor demand, which can result in turning off compressors given suitable storage
- Controls within +/- 0.1 barg
- Simple installation and operation







# For Economic System Control

## Technical Specifications

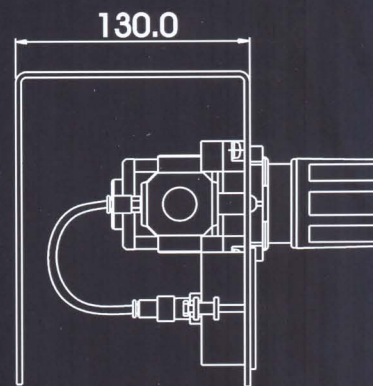
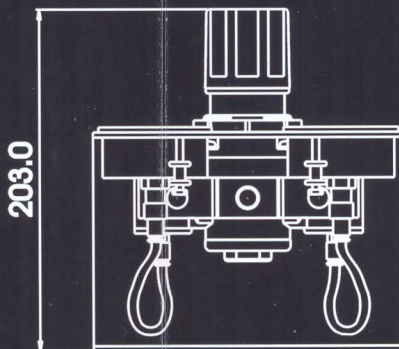
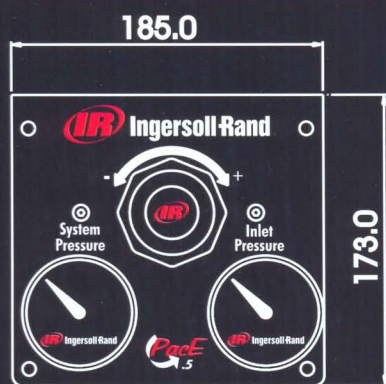
Connection Size (female)  
Maximum flow rate  
Maximum inlet pressure  
Control range  
Operating temperature range  
Sensitivity  
Repeatability

**PacE 1/2**  
0.5" BSP  
1.3 m<sup>3</sup>/min  
16 bar(g)  
10 – 0.5 barg  
-20 °C - 80 °C  
0.2% of Full Span  
±0.5% of Full Span

**PacE I**  
1" BSP  
7.1 m<sup>3</sup>/min  
16 barg  
10 – 0.5 barg  
-20°C – 80°C  
0.2% of Full Span  
±0.5% of Full Span

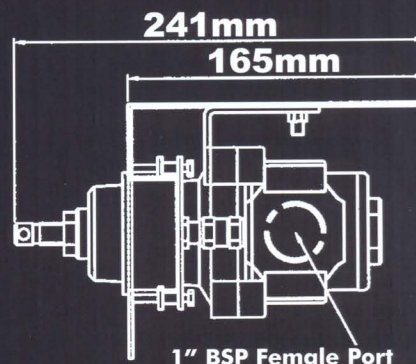
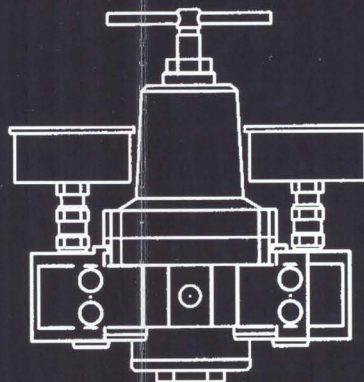
**PacE II**  
2" BSP  
18.4 m<sup>3</sup>/min  
10.3 barg  
10 – 0.5 barg  
-20°C – 80°C  
0.2% of Full Span  
±0.5% of Full Span

### PacE 1/2 Dimensional Drawing



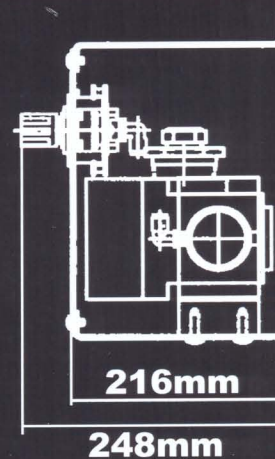
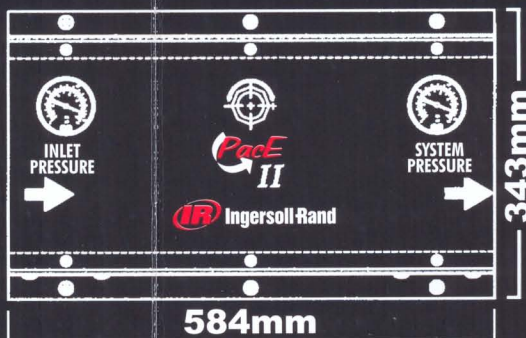
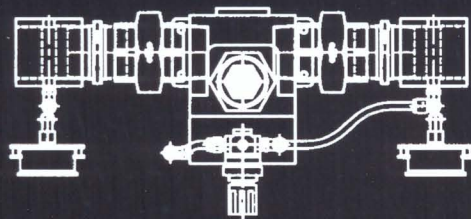
CPN 88321245  
Description Complete unit

### PacE I Dimensional Drawing



CPN 88309539  
38036281  
Description Complete unit  
Repair kit

### PacE II Dimensional Drawing



CPN 88318654  
88317359  
Description Complete unit  
Replacement control valve (no repair kit available)

CPN 88317375  
88317367  
Description Tamper Proof cap  
Replacement pilot regulator (complete)

# ENL - Electric No Loss



# ENL - Electric No Loss

- The newly-enhanced ENLs are heavy-duty industrial drains that remove condensate without wasting compressed air.
- The ENLs operate on 230 V and can be attached to a variety of air compressors and accessories.
- The ENLs are small lightweight drains that are easy to install in applications that have minimum available space.
- With a wide range of valves available, systems from 2.5 m<sup>3</sup>pm to 1416 m<sup>3</sup>pm can be accommodated.
- The ENLs also have a high-pressure offering, from 8.5 m<sup>3</sup>pm to 42.5 m<sup>3</sup>pm
- The full line of ENLs is compatible with the Ingersoll Rand in-line filter and PolySep oil water separators.

## ENL CPNs and Operating Specifications

CPN	Model	Performance (m <sup>3</sup> pm)			Max Operating Pressure		Inlet BSP (in)	Discharge BSP (in)
		Compressor	Dryer	Filter	Bar g	Psi g		
38445938	ENL 2	2,54	5,1	25,5	15,8	230	0.5	0.25
38445953	ENL 5	6,4	12,75	63,7	15,8	230	0.5	0.25
38445979	ENL 30	36,8	73,6	368	15,8	230	0.5	0.5
38445995	ENL 100	141,6	283	1416	15,8	230	0.75	0.5
38446019	ENL 1000	1416	2832	14160	15,8	230	1	0.5
38446035	ENL 6 HP	8,5	17	85	62,8	912	0.5	0.5
88330352	ENL 30 HP	42,5	85	425	50	725	0.5	0.5

## ENL Options

CPN	Model	
38446068	ENL 30, 100, 1000	Heater
38446076	ENL 6 HP	Insulation shell
38448585	ENL 30, 30 HP	Insulation shell

## Specifications

- Power-on indicator
- Test button
- Alarm feature
- 2,5 m<sup>3</sup>pm - 1416 m<sup>3</sup>pm
- 230 V operating power for all units
- Small profile
- Easy installation
- Sensor-controlled
- No unnecessary loss of compressed air
- Low-maintenance
- Standard operating pressure to 15,8 bar
- High-pressure offering 50 to 63 bar

## Manuals

CPN	Model	
80442940	All	Qwik Start Sheet
80442957	All	CD of Manuals



Ingersoll Rand Industrial Technologies provides products, services and solutions to enhance the efficiency and productivity of our commercial, industrial and process customers. Our innovative products include air compressors, air systems components, tools, pumps, material and fluid handling systems and microturbines.



# Air Pressure Intensifiers - Booster



## AIR PRESSURE INTENSIFIERS

**2:1 MAXIMUM PRESSURE BOOST RATIO  
13 BAR MAXIMUM DISCHARGE PRESSURE**

Ingersoll Rand's (IR) Compressed Air Pressure Intensifiers are a simple, low-cost method for improving air systems performance and resolving point of use low-pressure problems.

By installing an IR intensifier, it is possible to boost your air pressure by a 2:1 ratio. For example, an incoming pressure to the booster of 5BAR, an output pressure of up to 10BAR can be achieved.

Running your entire compressed air system at the lowest pressure possible is the most efficient and cost-effective way to produce and use compressed air. Incorporating point-of-use intensifiers, and boosting pressure only at specific points in your system that require high pressure, helps to achieve this.

IR intensifiers require no electricity and are completely self-contained units. Simply pipe compressed air into the inlet

port of the unit and adjust the unit's integral pressure regulator to the required discharge pressure. High-pressure will be delivered.

All IR intensifiers are mounted on a 50 Litre 13.8 BAR CE rated buffer tank, which helps prevent pulsation in the volume of air delivered from the booster to your application. The tank is fitted with a 13.8 BAR safety relief valve and manual drain valve. On the outlet port of the buffer tank is a secondary high-flow/high-pressure self-relieving regulator that allows for simple and precise pressure control from the buffer tank to the application.

When the intensifier reaches the set pressure the unit simply stalls and no air or energy is consumed. When pressure drops, the booster will automatically re-start.

The air consumption used to drive an

intensifier is between 1/2 to 1 times the amount of pressure-boosted air. If 0.57 m<sup>3</sup>/min of air is required, between 0.85 to 1.14 m<sup>3</sup>/min of compressed air will be used. Between 0.28 to 0.57 m<sup>3</sup>/min will be vented through the units exhaust muffler.

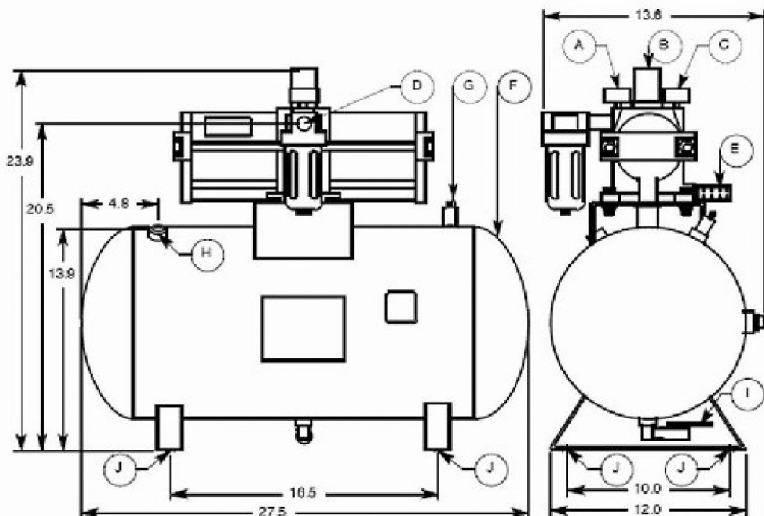
Supply pressure BAR	Maximum Flow-Rate m <sup>3</sup> /min	Discharge Pressure Max BAR
3	0.37	3.5 - 6.55
4	0.42	4.14 - 7.6
5	0.57	4.83 - 8.96
5.5	0.71	5.52 - 10.34
6	1.00	6.21 - 11.03
7	1.33	7.00 - 12.41
8	1.42	7.60 - 13.78

### Booster Features

- A. Inlet pressure gauge
- B. Built-in pressure regulators
- C. Discharge pressure regulator
- D. Inlet Filter (not supplied with package)
- E. Exhaust Silencer
- F. 50 Litre 13.8 BAR CE tank
- G. 13.8 BAR safety valve
- H. xxx
- I. Drain valve
- J. Tank mounting holes

### Booster Specifications

- Maximum boost ratio 2.1
- 100% duty cycle
- Inlet pressure range 1 - 10 BAR
- Discharge pressure range 1 - 13.78 BAR
- Temperature range 4-54° C (40- 130° F)
- Weight 32 Kg
- Integral regulator controls discharge pressure and are self relieving
- Tank outlet pressure regulator



Ingersoll-Rand  
Swan Lane, Hindley Green.  
WN2 4EZ  
England Page 44 of 56



# Technical Specifications



## Speed-Line Technical specifications

DESCRIPTION	PIPE DIAMETER	STANDARD PIPE LENGTH	WEIGHT	MAX WORKING PRESSURE	MAX TEMP	MIN TEMP
SL 14	14mm (1/2")	5 mms (16'-6")	0.160kg/m (0.101lb)	17bar (250psig)	130°C (266°F)	-30°C (-22°F)
SL 22	22mm (1")	5 mms (16'-6")	0.260kg/m (0.171lb)	17bar (250psig)	130°C (266°F)	-30°C (-22°F)
SL 28	28mm (1-1/4")	5 mms (16'-6")	0.308kg/m (0.223lb)	17bar (250psig)	130°C (266°F)	-30°C (-22°F)

For mechanical and physical properties please refer to manufacturer's installation manual.

## Flow rates through tubing

WORKING PRESSURE	14mm (1/2")	22mm (1")	28mm (1-1/4")
Bar - psig	cfm - (M3/Min)	cfm - (M3/Min)	cfm - (M3/Min)
7 bar - 100psig	36 - (1.02)	70 - (1.99)	126 - (3.58)
8.5 bar - 125psig	42 - (1.19)	85 - (2.24)	146 - (4.21)
10 bar - 150psig	47 - (1.33)	101 - (2.87)	175 - (4.98)
14 bar - 205psig	62 - (1.75)	133 - (3.78)	231 - (6.57)
17 bar - 250psig	69 - (1.96)	162 - (4.61)	281 - (8.00)

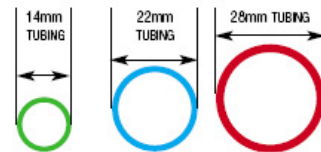
Flows are based on a 1 psig pressure drop per 10 mms (300').

SimplAir- SpeedLine (SL) has been designed to provide an efficient, low cost method of installing compressed air systems.

SimplAir-SL is a unique round aluminum extrusion, anodized to prevent corrosion and manufactured in line with SimplAir's advanced piping concept.

SimplAir-SL offers flexibility with bendable tubing, reducing the number of fittings needed for any installation. This gives you the ability to use large sweeping bends to eliminate high-pressure losses experienced using conventional fitting methods.

With SimplAir-SL, a successful installation can be achieved simply and quickly.



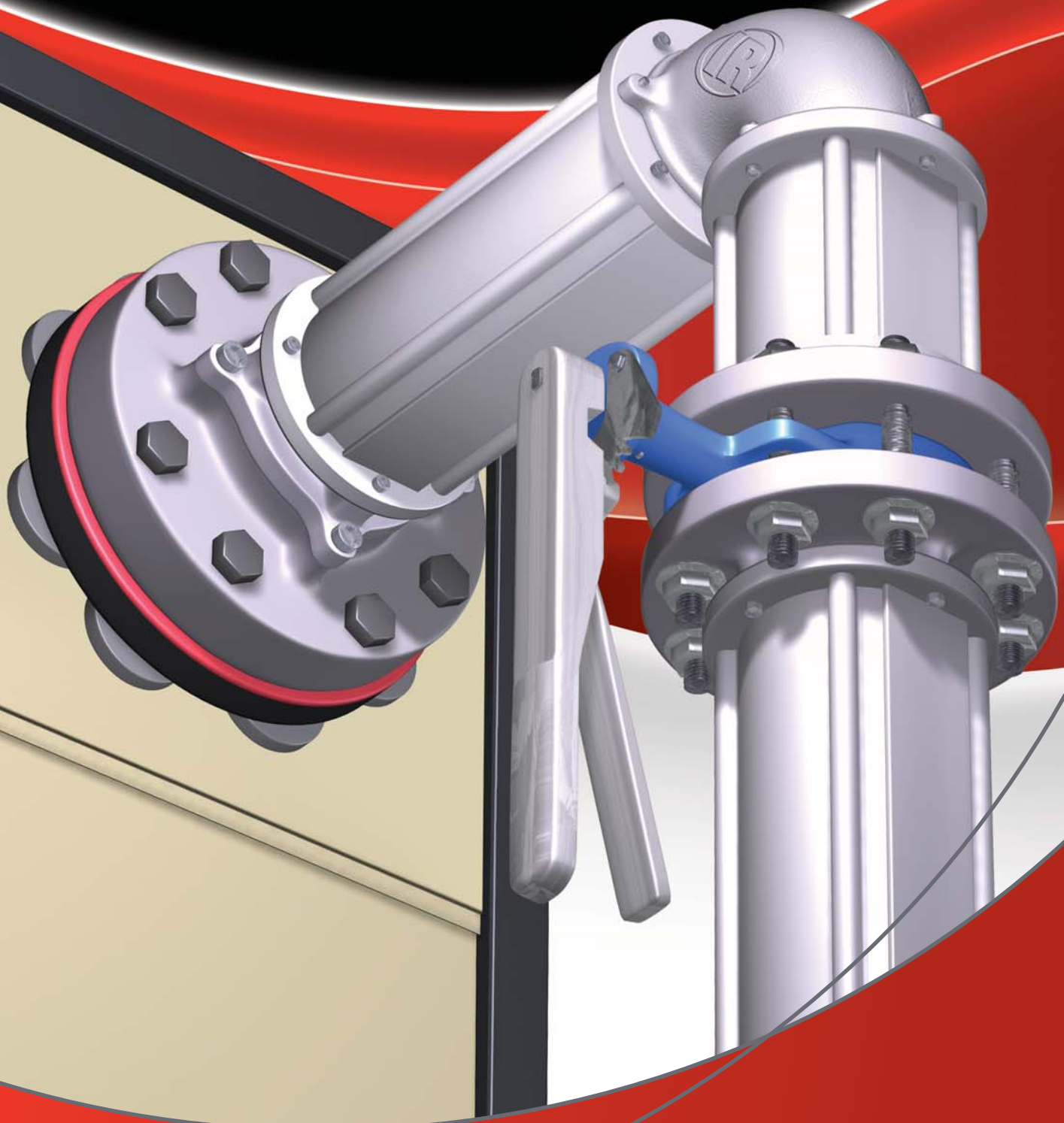
	THREAD SIZE	14mm (1/2")	22mm (1")	28mm (1-1/4")
		CPN	CPN	CPN
TUBING		92455377	54521059	54539127
UNION	N/A	54563861	54589171	54589189
ELBOW, 90° UNION	N/A	54563952	54589270	54589288
ELBOW, 90° MALE STREET	1/2" NPT	54563911		
	1/2" BSP	54563937		
	3/4" NPT		38004057	
	3/4" BSP		38004065	
	1" NPT		54589239	
	1" BSP		54589247	
	1-1/4" NPT			54589254
	1-1/4" BSP			54589262
STUD, MALE STRAIGHT	1/2" NPT	54563895		
	1/2" BSP	54563903		
	3/4" NPT		38004073	
	3/4" BSP		38004061	
	1" NPT		54589197	
	1" BSP		54589205	
	1-1/4" NPT			54589213
	1-1/4" BSP			54589221
TEE UNION	N/A	54563960	54589296	54589304
END CAP	N/A	54600721	54599592	54599618
FEMALE STEM ADAPTERS	14mm x 1/4" NPT	38004115		
	14mm x 1/4" BSP	38004123		
	14mm x 3/8" NPT	38004131		
	14mm x 3/8" BSP	38004149		
	22mm x 1/4" NPT		38004156	
	22mm x 1/4" BSP		38004164	
	22mm x 3/8" NPT		38004172	
	22mm x 3/8" BSP		38004180	
	22mm x 1/2" NPT		38004198	
	22mm x 1/2" BSP		38004206	
	28mm x 1/4" NPT			38004124
	28mm x 1/4" BSP			38004222
	28mm x 3/8" NPT			38004230
	28mm x 3/8" BSP			38004248
	28mm x 1/2" NPT			38004256
	28mm x 1/2" BSP			38004263
1" x 4 WAY OUTLET MANIFOLD	4 x 1/4" NPT outlets	38004339	All 4 outlets parts are supplied plugged - remove plug to use	
(Manifold has 1" plugged part in base of unit)	4 x 1/4" BSP outlets	38004347	All 4 outlets parts are supplied plugged - remove plug to use	
	4 x 3/8" NPT outlets	38004354	All 4 outlets parts are supplied plugged - remove plug to use	
	4 x 3/8" BSP outlets	38004362	All 4 outlets parts are supplied plugged - remove plug to use	
REPLACEMENT FERRULES		38004297		
			38004313	
				38004321
Hanging/mounting brackets	10mm (3/8")	54593652	54593660	54593678
Wall mounting back plates	10mm (3/8")	54593645	54593645	54593645
PIPE BENDER COMPLETE*			54599568	
FORMER		N/A**	54599527	54599543
GUIDE		N/A**	54599535	54599550

\*PIPE BENDER KIT COMPLETE WITH BOTH 22mm AND 28mm FORMERS AND GUIDES  
 \*\*Note: 14mm TUBING CAN BE BENT WITH A 22mm (1") FORMER AND GUIDE

SimplAir SL is tested to ANSI B31.1

# *SimplAir Evolution*

*Compressed Air Piping System*



# Flow Rates Through Tubing

## Pressure – Bar (PSIG)

Diameter		7 (103)			8 (118)			10 (147)			12 (176)			14 (203)		
mm	in	L/sec	M3/Min	SCFM	L/sec	M3/Min	SCFM	L/sec	M3/Min	SCFM	L/sec	M3/Min	SCFM	L/sec	M3/Min	SCFM
40	1.5	112.8	6.7	239	125	7.52	265	138.7	8.32	294	151	9.05	320	162.8	9.76	345
50	2	227	13.64	482	260	15.6	551	326	19.56	691	392	23.55	832	473	28.4	1003
63	2.5	444	26.64	941	491	29.39	1038	634	38.28	1345	781	47.03	1661	912	54.7	1932
80	3	848	50.9	1798	906	54.39	1921	1021	61.27	2164	1132	67.9	2398	1273	76.36	2697
110	4	1675	100	3550	1801	108	3817	2007	120	4254	2178	130	4615	2342	140	4963
150	6	3770	226	7990	4008	240	8493	4490	269	9513	4887	293	10356	5247	315	11119

Flows are based on 1 psig pressure drop per 30 meters (100ft). Tested to OSP 2944.  
Measured at standard atmospheric conditions – 1013 mbar (14.7 psi) at 20°C (68°F).

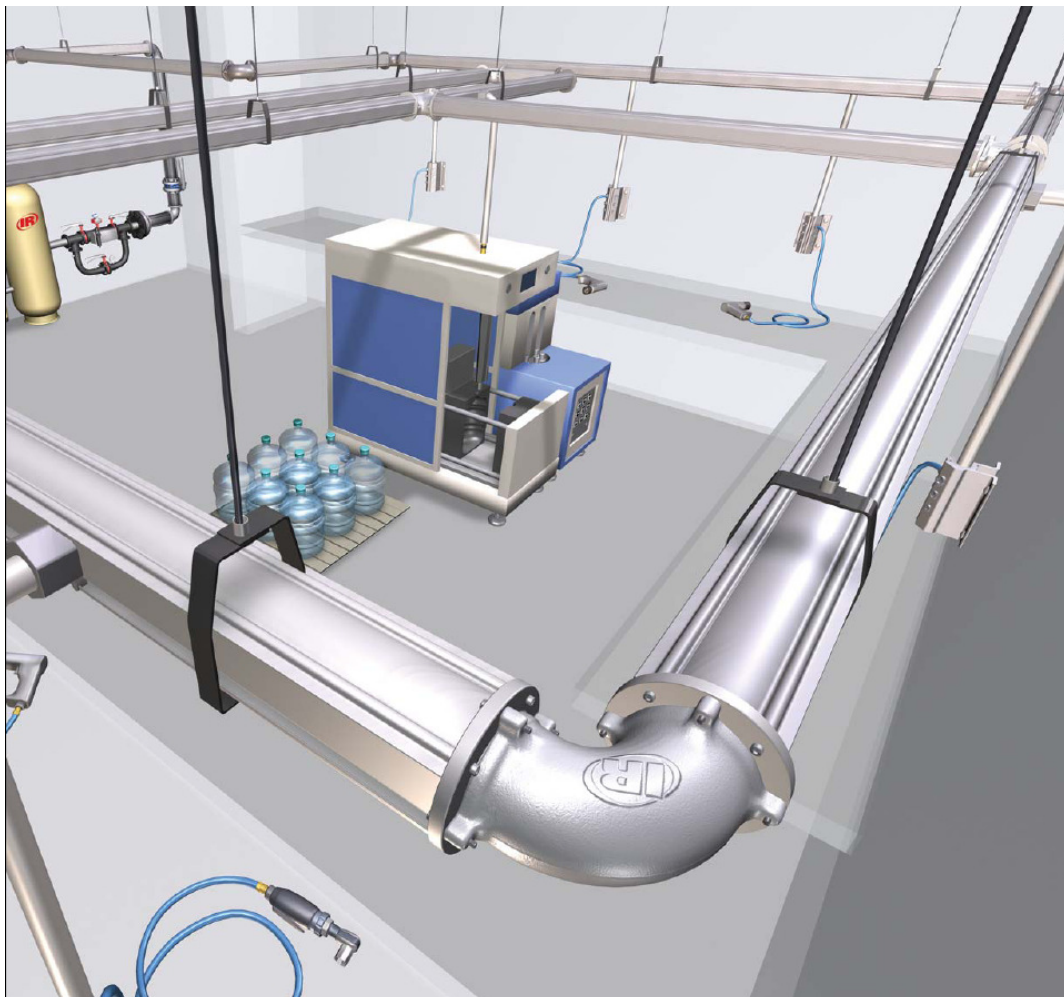
## Technical Specifications

Desc.	Interior Diameter		Exterior Diameter		Standard Pipe Length		Weight		Max. Working Pressure		Tested Pressure		Max. Temp.		Min. Temp.	
	mm	in	mm	in	meters	ft	Kg/Mtr	lbs/ft	bar	psig	bar	psig	C°	F°	C°	F°
Evolution 40	40	1.5	71.07	2.798031496	6.1	20	1.539	1.03	14	203	**	**	130	266	-30	-22
Evolution 50	50	2	83.48	3.286614173	6.1	20	1.93651	1.3	14	203	**	**	130	266	-30	-22
Evolution 63	63	2.5	95.19	3.747637795	6.1	20	2.50508	1.68334	14	203	**	**	130	266	-30	-22
Evolution 80	80	3	122.33	4.816141732	6.1	20	3.40475	2.28789	13.79	200	**	**	130	266	-30	-22
Evolution 110	110	4	149.57	5.888582677	6.1	20	5.36842	3.60741	13.79	200	**	**	130	266	-30	-22
Evolution 150	150	6	185.4	7.299212598	6.1	20	7.34875	4.93813	11.72	170	**	**	130	266	-30	-22

\*\* 4X MAWP with a 0.8 casting factor

Example 1: Casting Proof Test Pressure for 170 psig MAWP is 170 x 4/.8= 850 psig proof test pressure

Example 2: Non-casting Proof Test Pressure for 170 psig MAWP is 170 x 4= 680 psig proof test pressure



Nitrogen generator

# TyreSaver & TruckTyreSaver



TyreSaver unit



TruckTyreSaver unit



ENGINEERING YOUR SUCCESS.



# TyreSaver & TruckTyreSaver Generators for Tyre Filling

## Features

- TruckTyreSaver can fill up to 35 super single tyres per hour
- TyreSaver can fill 25-30 car tyres per hour
- No extra filling time compared to compressed air
- Easy installation
- No air-loss when not in operation
- Can be connected directly to the filling piston or storage vessel
- High quality compressed air filtration
- Minimum maintenance
- Compact design
- Stable purity due to automatic membrane pressure regulation

## Product description

Parker nitrogen generators are based on Parker hollow fibre membrane technology, which makes it possible to separate air into nitrogen and an oxygen-enriched air stream. The TyreSaver & TruckTyreSaver nitrogen generators enable you to easily produce nitrogen from compressed air.

The TyreSaver and TruckTyreSaver are designed to fill tyres with nitrogen supplying the

purity required to keep the tyres at constant pressure. All tyre filling generators are equipped for connection to an external nitrogen storage vessel or directly to the filling piston. The generators automatically switch on and off depending on the nitrogen demand. They both work pneumatically, no power supply is needed.

The compressed air can be sourced either from a central system, or from a dedicated compressor.

The installation has virtually no moving parts and a high quality compressed air treatment section, resulting in reliable, trouble free operation with virtually no maintenance. The generator is ready to operate as soon as the compressed air from the compressor is connected.

## TyreSaver

- High quality integrated compressed air filtration
- Pressure indication on front panel
- Works with standard compressed air house system

## TruckTyreSaver

- Switches off when not in use
- Works with standard compressed air house system
- Optional carbon adsorber pre-filtration unit available

## Carbon adsorber option for TruckTyreSaver

- Coarse filter
- Fine filter
- Carbon Adsorber
- All connections to connect above filters and adsorber
- Hose to connect adsorber to TruckTyreSaver

## Compact design

- Robust construction
- Small footprint
- Smallest trucktyre filling unit in the world

## Easy Installation

- Easy wall-mounted
- Connect air supply
- Connect filling piston or storage vessel

## Maintenance

- Easy access
- Maintenance indication on filters
- Yearly filter exchange

## Specifications

Minimum nitrogen production capacity  
Capacity [Nm<sup>3</sup>/hr] at nominal conditions: ambient temperature 20°C,  
ambient pressure 1013 mbar(a). Inlet pressure 10 bar(g)

Nitrogen purity %	95
TyreSaver TS3	3
TruckTyreSaver TTS10	10
TruckTyreSaver TTS20	20
TruckTyreSaver TTS30	30
TruckTyreSaver TTS40	40

For calculation of the capacity of the TyreSaver and TruckTyreSaver at feed pressures other than the nominal feed pressure: multiply the nominal capacity by the correction factor for the pressure at the inlet of the generators.

Pressure bar(g)	5	6	7	8	9	10	11	12	13
Correction factor	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3

## Technical data

Data/Generator	TS3	TTS10	TTS20	TTS30	TTS40
Max. delivery pressure	Inlet pressure minuse pressure drop (1 bar max)				
Default storage pressure	6.5 bar(g)	9.5 bar(g)			
Feed air pressure	5 – 13 bar (g)				
Temperature	10 – 40 °C				
Compressed Air	Residual oil content < 0.01mg/m <sup>3</sup> – Pressure dewpoint: < 5 °C				
Connections	G1/4"	Air inlet: G1/2" – nitrogen outlet: G1/4"			
Noise level	< 45 dBA				
Dimensions (HxWxD)	813 x 473 x126.5 mm	843.5 x 555.5 x 154 mm			
Weight	30 kg	35 kg		40 kg	
Part numbers generators	159.002888	159.003295	159.003296	159.003297	159.003298
Maintenance kits – yearly	159.004178	159.004174			
Carbon adsorber option			159.003639		
Maintenance kit incl.			159.004176		
Carbon adsorber option					

Reference condition for Nm<sup>3</sup> = 20°C and 1013 mbar(a)

Parker Filtration & Separation B.V. has a continuous policy of product development and although the company reserved the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact your Parker sales representative for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sales.

Aansluitkit 1/4" t.e.m. 1/2" met voedingskabel en condensafvoerleiding  
ENL2  
58/71/2120



Kit tijdsgestuurde purge 1/4" t.e.m. 1/2" met voedingskabel  
en condensafvoerleiding  
Optimum purge  
58/76/0163



Kit drukschakelaar 1/4" t.e.m. 1/2"  
Condor  
71/25/1143



## MODEL: Vertical Air Receivers



### Description

- Carbon Steel, welded simple pressure vessel, externally primed
- Complete with fitting kit comprising of drain valve, safety valve and pressure gauge
- Each Receiver supplied with certificates of conformity
- Each Safety Valve supplied with certification
- ENLD Drain in option
- ENLs are heavy-duty industrial drains that remove condensate without wasting compressed air.

Model	Capacity		Weight kg	Eyebolt Qty	Leg Qty	CPN
	Litres	Cubic Feet				
<b>11 Bar Vertical Receiver</b>						
	500.0	17.65	165	1	3	88331160
<b>12Bar Vertical Receiver</b>						
	1,000.0	35.31	398	1	3	88331178
	1,500.0	52.97	620	2	3	88331186
	2,000.0	70.63	789	1	3	88331194
	3,000.0	105.94	1034	2	3	88331202
<b>11 Bar Vertical Receiver-Galvanized</b>						
	500.0	17.65	165	1	3	18300483
<b>12Bar Vertical Receiver-Galvanized</b>						
	1,000.0	35.31	398	1	3	18300491
	1,500.0	52.97	620	2	3	18300509
	2,000.0	70.63	789	1	3	18300517
	3,000.0	105.94	1034	2	3	18300525

### Receiver sizing calculation:

Size of demand (m<sup>3</sup>/min) x duration of event (min) ÷ Delta P (barg)

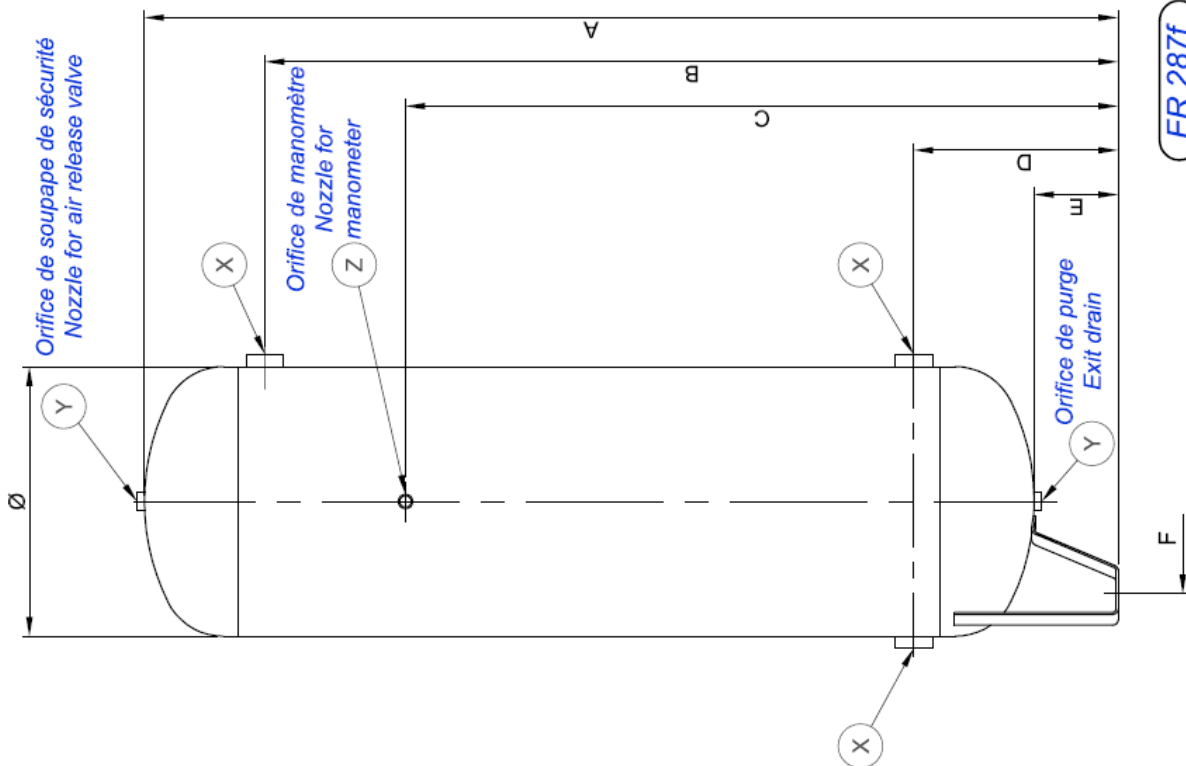
Ex: 1.2 m<sup>3</sup>/min x 0.25 (min) = 0.5 m<sup>3</sup> (500 litres) 2 0.6 barg

Storage and effect on control

OL/OL basis 10% of compressor volume (k=1)

Options	CPN
Electronic No Loss Drain for Dry Application	ENL 2 38445938
Electronic No Loss Drain for Wet Application	ENL 30 38445979

*If Options are selected the Standard CPN should not be used*



FR 287f  
03/09/10

**RPS - Directive 2009/105/CE**  
**Réservoirs CE verticaux pour AIR ou AZOTE**  
**SPV - EC Directive 2009/105**  
**Vertical EC air receivers for AIR or NITROGEN**  
 Galvanisé intérieur/extérieur - Galvanised in / out  
 Pression de service - Operating pressure : 10,66 bars  
 Températures de service - Operating temperature : -10 / 100°C

CAPACITÉ CAPACITY	Ø	A	B	C	D	E	F	X	Y	Z
50	300	895	765	720	250	100	/	1"	3/4"	1/2"
100	400	1040	865	730	300	150	/	1"	3/4"	1/2"
200	500	1226	998	882	382	155	Ø405	1"1/4	3/4"	1/2"
300	500	1801	1563	1318	383	155	Ø395	1"1/2	3/4"	1/2"
500	650	1793	1511	1321	437	155	Ø555	2"	1"	1/2"
750	800	1811	1499	1349	479	155	Ø703	2"	1"1/4	1/2"
900	800	2096	1750	1350	479	160	Ø703	2"	1"1/4	1/2"

Réservoirs 50L et 100L sur socle  
 Air receivers 50L and 100L on base



Doosan Infracore  
Portable Power

# Mobiele luchtcompressoren

# Productgamma

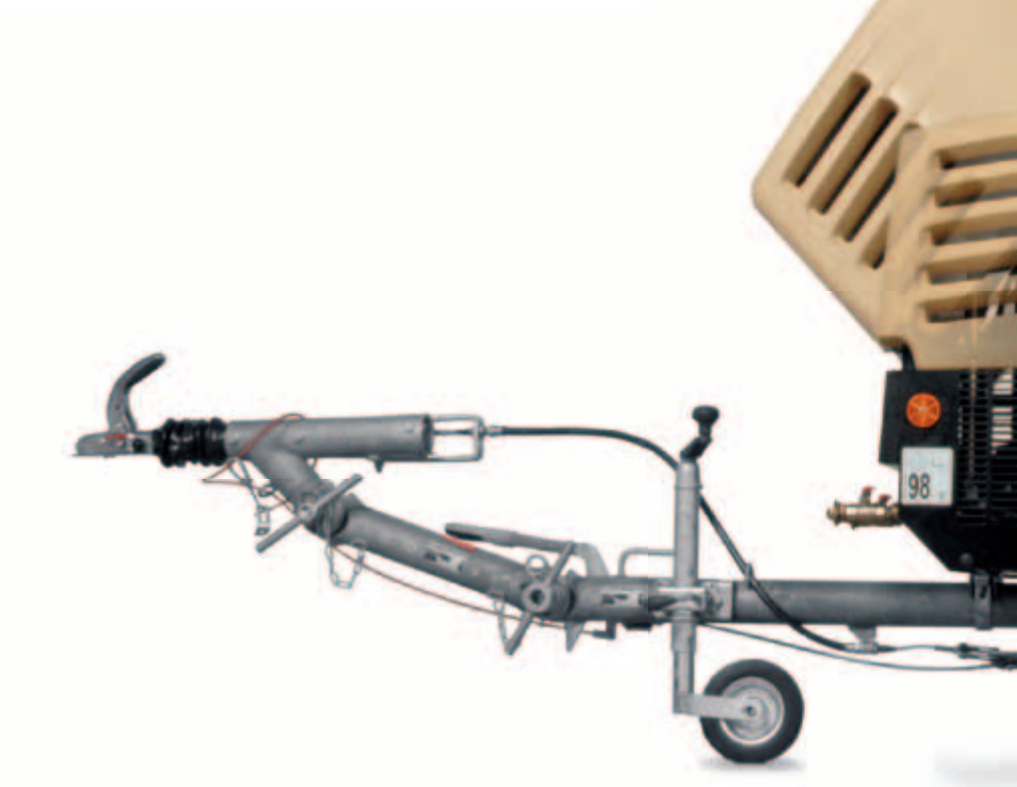


# Doosan mobiele luchtcompressoren

## Betrouwbare prestaties

Doosan Infracore Portable Power (DI PP) stelt met trots zijn volledige lijn mobiele [luchtcompressoren](#) voor, conform EG-richtlijnen: 24 verschillende modellen, met [vrije luchttoevoer](#) tussen 2 en 45m<sup>3</sup>/min en een werkdruk tussen 7 en 25 bar.

Elke DI PP-compressor is 'gebouwd voor gebruik' met [het hoogste niveau inzake duurzaamheid, productiviteit en onderhoudsgemak](#). Deze bewezen betrouwbaarheid en het waardebehoud maken van een DI PP-compressor [een verstandige investering](#) in de huidige concurrerende markt.



### Hoog omgevingsvermogen

Alle EG-conforme modellen hebben een LAT-waarde van 46°C.

Voor toepassingen in [warme klimaten](#) buiten het EG-gebied, zorgt de hoge-omgevings-[optie](#) voor een [LAT van 52°C](#).

### Grote brandstoftankcapaciteit

Goedgeplaatste brandstoftanks met grote vultrechter, wat het risico op [het morsen van brandstof beperkt](#).



## Onderhoudsgemak & interne toegankelijkheid

Uitstekend onderhoudsgemak met [gemakkelijke toegang](#) tot alle [onderhoudspunten](#). Alle ruimtes werden zorgvuldig ontworpen met het oog op eenvoudige inspectie, onderhoud en herstelling. Onderhoudsintervallen voor verschillende compressoronderdelen werden gerationaliseerd om de [kosten](#) voor de klant te [verlagen](#) en de beschikbaarheid te verhogen.

## Beveiliging

De compressoren omvatten een [afsluitbare kap](#) en een afsluitbare [stalen afdekking voor het instrumentenpaneel](#). Bovendien [vermindert](#) een opklapbare hefbeugel het [risico op diefstal](#) door het hefoog binnen de behuizing van de compressor te houden.



7/41+  
Kenmerk: 7/41 met "Tough Top" kap.



## Modulair ontwerp en flexibiliteit

Het modulair ontwerp zorgt ervoor dat er gemakkelijk optionele uitrusting kan worden toegevoegd. Het brede [pakket aan beschikbare opties](#) zorgt ervoor dat de machines kunnen worden aangepast aan specifieke toepassingen, zoals de montage van een [nakoeler systeem](#) voor zandstralen, tot een persoonlijk ontwerp in de kleuren van de klant.



## Eenvoudig te bedienen

DI PP-compressoren beschikken over een intuïtieve, eenvoudige start procedure met sleutel. [Ideaal voor verhuurbedrijven](#) door het [verminderde risico](#) op verkeerd gebruik van de machines. Het [gebruiksvriendelijke bedieningspaneel](#) biedt een overzichtelijke indeling van instrumenten en waarschuwingsindicatoren.





Doosan Infracore  
Portable Power

## Mobiele luchtcompressoren

### Technische specificaties



Model		7/20	7/26E	7/31E	7/41	7/51	7/70
<b>COMPRESSOR</b>							
Vrije luchttoevoer	m <sup>3</sup> /min(cfm)	2,0 (70)	2,5 (88)	3,0 (105)	4,0 (141)	5,0 (176)	7,1 (253)
Nominale bedrijfsdruk	bar (psi)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7,0 (100)
Maximaal toegelaten druk	bar (psi)	8,6 (125)	8,6 (125)	8,6 (125)	8,6 (125)	8,6 (125)	8,6 (125)
Instelling veiligheidsklep	bar (psi)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10,0 (145)
<b>MOTOR</b>							
Merk		Kubota	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar
Model		3IRJ5N	3IRH2NS	3IRH8N	4IRH8N	4IRI8NE-2	4IRI8NE-2
Aantal cilinders		3	3	3	4	4	4
Snelheid volledig beladen	rpm	3000	2800	2800	2800	2400	2300
Vermogen	kW (hp)	17,5 (23,5)	21,2 (28,5)	26,0 (34,8)	34,8 (47,0)	50,2 (67,3)	59,2 (80,0)
Elektrische uitrusting	volt	12	12	12	12	12	12
Koeling		water	water	water	water	water	water
Brandstoftankcapaciteit	liter	26	50	50	40	50	110
Luchtuitlaat BSPT (British Standard Pipe Thread)		2x3/4"	2x3/4"	2x3/4"	2x3/4"	3x3/4"	1x1 1/4"
<b>GEGEVENS GELUIDSNIVEAU</b>							
Voldoet volledig aan geluidsemisierichtlijn 2000/14/EG (2006)	LWa	97	98	98	98	98	99
<b>BANDEN</b>							
Afmeting banden		155R13	155R13	155R13	155R13	155R13	185R13
Aantal wielen		2	2	2	2	2	2
<b>AFMETINGEN (MET ONDERSTEL)</b>							
Lengte (vaste hoogte)	mm	2611	2923	2923	3052	3457	3561
Lengte min~max (variabele hoogte)	mm	2695 ~ 2905	3213 ~ 3369	3213 ~ 3369	3322 ~ 3577	3537 ~ 3827	3806 ~ 4056
Breedte	mm	1272	1390	1390	1390	1520	1700
Hoogte	mm	1130	1235	1235	1369	1486	1540
Bodemvrijheid	mm	205	220	220	250	250	250
(Netto) gewicht vast/regelbaar	kg	430	575 / 590	595 / 610	673 / 706	870 / 920	1250 / 1300
(Bedrijfs) gewicht vast/regelbaar	kg	445	615 / 630	635 / 650	706 / 739	905 / 955	1345 / 1400
<b>AFMETINGEN (OP TRANSPORTSTEUN)</b>							
Lengte	mm	1443	1764	1764	1785	2128	2470
Breedte	mm	940	940	940	940	1070	1200
Hoogte	mm	930	1145	1145	1204	1230	1420
Gewicht (netto)	kg	385	495	515	553	760	1190
(Bedrijfs-) gewicht	kg	400	535	555	586	795	1290
Onderstel ongeremd - verminderd vast/ regelb.	kg	25	35/30	35/30	Nvt	Nvt	Nvt
Optie generator - voeg toe	kg	Nvt	53	53	53	53	53

\* Of 215/75 R16 \*\* 225/75 R16 voor Frankrijk

## Compressor opties (zie tabel voor beschikbaarheid per model)



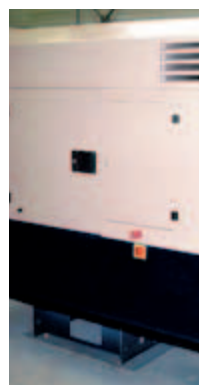
### Onderstel in hoogte verstelbaar

**Kenmerk:** Onderstel voldoet aan EG vereisten voor slepen op de weg, 7/20 tot 7/170 platform.  
**Voordeel:** Zorgt voor flexibele sleephoogte.



### Zonder onderstel - Ondersteuning transport

**Kenmerk:** Tijdelijke metalen ondersteuning om een veilig transport van de eenheid naar de klant te garanderen.  
**Voordeel:** Verminderd risico op beschadiging van machine.



### Zonder onderstel - Permanent

**Kenmerk:** Permanente metalen ondersteuning om een veilig transport van de eenheid naar de klant te garanderen.  
**Voordeel:** Gewoonlijk bestelde onderstel wordt niet op een vrachtwagen gemonteerd.



	12/56	14/85	10/105	9/110	7/120	14/115	10/125	7/170	12/150
50)	5,6 (200)	8,5 (300)	10,3 (365)	10,6 (375)	12,0 (425)	11,3 (400)	12,7 (450)	17,0 (600)	14,9 (526)
00)	12,1 (175)	14,0 (200)	10,3 (150)	8,6 (125)	7,0 (100)	14,0 (200)	10,3 (150)	7,0 (100)	12 (175)
25)	13,0 (190)	15,5 (225)	12,1 (175)	10,3 (150)	8,6 (125)	15,5 (225)	12,1 (175)	8,6 (125)	12,7 (184)
145)	15,0 (217)	17,2 (250)	13,8 (200)	13,8 (200)	10,3 (150)	17,2 (250)	13,8 (200)	12,0 (175)	15 (218)
mar	Yanmar	John Deere	John Deere	John Deere	John Deere	John Deere	John Deere	John Deere	Cummins
8TE	4IRI8TE	4IRD5AE	4IRD5AE	4IRD5AE	4IRD5AE	6IRF8AE	6IRF8AE	6IRF8AE	QSB 6,7 FR91440
	4	4	4	4	4	6	6	6	6
00	2300	2200	2200	2200	2200	2200	2200	2200	2000
79,4)	59,2 (79,4)	93 (125)	93 (125)	93 (125)	93 (125)	129 (173)	129 (173)	129 (173)	164 (220)
2	12	24	24	24	24	24	24	24	24
er	water	water	water	water	water	water	water	water	water
2	112	219	219	219	219	276	276	276	310
3x3/4"	1x1¼", 3x¾"	1x1¼", 3x¾"	1x1¼", 3x¾"	1x1¼", 3x¾"	1x1¼", 3x¾"	1x2", 1x1¼", 2x¾"	1x2", 1x1¼", 2x¾"	1x2", 1x1¼", 2x¾"	1x2", 1x1¼", 2x¾"
	99	99	99	99	99	99	99	99	99
14 C	185 R14 C	205/75 R16	205/75 R16	205/75 R16	205/75 R16 *	205/75 R17,5	205/75 R17,5	205/75 R17,5 **	225/75R16
	2	2	2	2	2	2	2	2	2
55	3565	4120	4120	4120	4120	4852	4852	4852	4820
4062	3806 ~ 4062	4262 ~ 4478	4262 ~ 4478	4262 ~ 4478	4262 ~ 4478	4793 ~ 4998	4793 ~ 4998	4793 ~ 4998	4995~5155
0	1700	1985	1985	1985	1985	1985	1985	1985	2130
5	1545	1810	1810	1810	1810	1890	1890	1890	2135
0	250	250	250	250	250	250	250	250	293
1290	1250 / 1290	1935/1965	1935/1965	1935 / 1965	1935 / 1965	2570 / 2650	2570 / 2650	2570 / 2650	2513/2572
1385	1345 / 1385	2121 / 2151	2121 / 2151	2121 / 2151	2121 / 2151	2770 / 2850	2770 / 2850	2770 / 2850	2763/2824
5	2475	2675	2675	2675	2675	3122	3122	3122	3350
0	1200	1380	1380	1380	1380	1550	1550	1550	1590
7	1427	1400	1400	1400	1400	2055	2055	2055	1700/2130
6	1196	1660	1660	1660	1660	2420	2420	2420	2233
6	1296	1830	1830	1830	1830	2745	2745	2745	2483
t	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt
3	53	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt



**Permanente montage**  
 en ondersteuning ter  
 el.  
 d wanneer de machine op  
 rd moet worden.



**Enkelvoudige kleur en lasergraving optie voor kap**  
**Kenmerk:** Bovenste canopy in kleur van de klant.  
**Voordeel:** Laat ontwerp van de klant toe en vermindert risico op diefstal.



**Steunwiel**  
**Kenmerk:** Alle eenheden hebben standaard een steunwiel. (Behalve 7/20, niet vereist op 9/270 tot 21/215).  
**Voordeel:** Hulp voor on-site wendbaarheid.



**Smeertoestel**  
**Kenmerk:** Een ingebouwde smeeroptie helpt om pneumatisch gereedschap te smeren.  
**Voordeel:** Verbeterd betrouwbaarheid en levensduur van pneumatisch gereedschap.



**Wielblokken**  
**Kenmerk:** 2 wielblokken op een helling zo bijvoorbeeld Duitsland.



9/270	9/300	12/235	17/235	21/215	10 / 370	10 / 455	25 / 300	25 / 330
27,0 (950)	30,0 (1060)	23,5 (825)	23,5 (825)	21,5 (750)	36,8 (1300)	45,3 (1600)	30,3 (1070)	33,1 (1170)
8,6 (125)	8,6 (125)	12,0 (175)	17,2 (250)	21,0 (300)	10,3 (150)	10,3 (150)	25 (365)	25 (365)
10,3 (150)	10,3 (150)	13,8 (200)	19 (275)	22,8 (330)	12,1 (175)	12,1 (175)	25,9 (375)	25,9 (375)
15,0 (217)	15,0 (217)	15,0 (217)	28,5 (413)	28,5 (413)	13,7 (200)	13,7 (200)	29,3 (425)	29,3 (425)
Cummins 6IRQ9AE	Cummins 6IRQ9AE	Cummins 6IRQ9AE	Cummins 6IRQ9AE	Cummins 6IRQ9AE	Cummins QSX 15	Cummins QSX 15	Caterpillar C15	Caterpillar C15
6	6	6	6	6	6	6	6	6
1800	1800	1800	1800	1800	1800	1800	1800	1800
224 (300)224 (300)	254 (340)	224 (300)224 (300)	254 (340)	254 (340)	380 (510)	418 (560)	354 (475)	403 (540)
24	24	24	24	24	24	24	24	24
water	water	water	water	water	water	water	water	water
550	550	550	550	550	870 870	870 870	874	874
1x2", 3x1¼"	1x2", 3x1¼"	1x2", 3x1¼"	1x2", 3x1¼"	1x2", 3x1¼"	1x3"	1x3"	1x3"	1x3"
100	100	100	100	100	Nvt	Nvt	Nvt	Nvt
750/16 6PR	750/16 6PR	750/16 6PR	750/16 6PR	750/16 6PR	215/75R17,5H	215/75R17,5H	215/75R17,5H	215/75R17,5H
4	4	4	4	4	4	4	4	4
4850	4850	4850	4850	4850	5840	5840	5840	5840
Nvt	Nvt	Nvt	Nvt	Nvt	-	-	-	-
2004	2004	2004	2004	2004	2290	2290	2290	2290
2290	2290	2290	2290	2290	2540	2540	2540	2540
300	300	300	300	300	200	200	200	200
4665	4665	4665	4665	4665	7302	7302	6774	6774
5125	5125	5125	5125	5125	8069	8069	7600	7600
4520	4520	4520	4520	4520	5670	5670	5670	5670
2004	2004	2004	2004	2004	2290	2290	2290	2290
2040	2040	2040	2040	2040	2210	2210	2210	2210
4465	4465	4465	4465	4465	7030	7030	6502	6502
4925	4925	4925	4925	4925	7797	7797	7234	7234
Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt
Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt	Nvt



Sluiteren gemonteerd op de machine. Sluiteren vermijden dat de machine kan bewegen (wettelijk vereist in Nederland).



#### Lichtgewicht slanghaspel gemonteerd op compressor

**Kenmerk:** Zorgt voor veilige en compacte opslag van een luchtslang (20m-3/4"). Enkel beschikbaar op bepaalde modellen.

**Voordeel:** Langere levensduur van de luchtslang en meer gebruiksgemak voor de gebruiker.



#### Gereedschapskist

**Kenmerk:** Een ingebouwd compartiment ontworpen voor opslag van een breekhamer.

**Voordeel:** Vermindert risico op diefstal en vergemakkelijkt transport.



#### Optie generator van 6 kVA

**Kenmerk:** De ingebouwde generator verhoogt de flexibiliteit van de compressor aanzienlijk.

Elektrische gereedschappen kunnen parallel werken met pneumatische.

# Kenmerken en opties

Kenmerken en opties (niet volledig)	7/20	7/26E	7/41	7/51	7/71	7/120	7/170	12/150	9/270	10/370
		7/31E			12/56	9/110	10/125		9/300	10/455
						10/105	14/115		12/235	25/300
						14/85			17/235	25/330
									21/215	
Vaste hoogte onderstel ongeremd	Opt	Opt	-	-	-	-	-	-	-	-
Vaste hoogte onderstel geremd	Std	Std	Std	Std	Std	Std	Std	Std	-	-
Variabele hoogte onderstel ongeremd (incl. zijstangen)	Opt	Opt	-	-	-	-	-	-	-	-
Variabele hoogte onderstel geremd (incl. zijstangen)	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-	-
Wagonwiel type onderstel	-	-	-	-	-	-	-	-	Std	Std
Zonder onderstel (met gecentraliseerde onderhoudspunten)	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Steunstang	Std	Opt	Opt	Opt	-	-	-	-	-	-
Steunwiel	Opt	Std	Std	Std	Std	Std	Std	Std	-	-
Lichten voor op de weg	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-	-
Lasergraving (achterpaneel kap)	-	Opt	Opt	Opt	Opt	-	-	-	-	-
Smeertoestel	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-	-	-
Gereedschapskist	-	Opt	Opt	Opt	Opt	Std	Std	Std	-	-
Nakoeler en waterafscheider	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Nakoeler, waterafscheider en filters (IQ)	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Nakoeler, waterafscheider, filters en naverwarmer	-	-	-	Opt	Opt	-	-	-	-	-
Vonkvrije uitlaat	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Klep voor te hoog toerental	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Slanghaspel	-	Opt	Opt	Opt	Opt	-	-	-	-	-
Beveiliging hefbeugel	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Generator van 6 kVA (gelijktijdige bediening)	-	Opt	Opt	Opt	Opt	-	-	-	-	-
Koude start	-	Opt	Opt	Opt	Opt	Opt	Opt	-	Opt	Opt
Wielblokken	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-	-
Klem voor nummerplaat	Opt	Opt	Opt	Opt	Opt	-	-	-	-	-
Eigen kleur (RAL-code vereist)	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Positiesensor wielmoeren	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-	-
Schakelaar dubbele druk (eenheden >7 bar)	-	-	-	-	Opt	Opt	Opt	Opt	Opt	Opt
Warm klimaat versie (LAT 52°C)	-	Opt	Opt	Opt	Opt	Opt	Opt	-	Opt	-



## Positiesensor wielmoer

**Kenmerk:** De controlepunten zijn bevestigd aan de wielmoeren en opgesteld in een herkenbaar patroon.  
**Voordeel:** Veiligheidsmaatregel - als een wielmoer loskomt, wordt het patroon onderbroken.



## Vonkvrije uitlaat

**Kenmerk:** Vonkvrije uitlaten van Dieselmotoren vormen een belangrijke basisveiligheid voor toepassingen in gevaarlijke gebieden.  
**Voordeel:** Sluit risico op uitlaatvonken uit.



## Klep voor te hoog toerental

**Kenmerk:** Als de motor begint te versnellen door vluchtige dampen in de omgeving; sluit een klep voor een te hoog toerental de luchttoevoer naar de motor af.  
**Voordeel:** Voorkomt schade door een te hoog toerental.

# We stellen u onze mobiele luchtcompressoren van Doosan nader voor



Bij Doosan Portable Power koopt u niet enkel een krachtige machine. U investeert ook in de kracht van Doosan Portable Power en zijn werknemers. Van ingenieurs en fabriekstechnici tot vertegenwoordigers en uw verdeler: wij ondersteunen uw aankoop. We streven ernaar u te helpen bij het realiseren van maximumwaarde, taak na taak, dag na dag. Waar u een machine van Doosan Portable Power ziet, weet u dat het team van Doosan Portable Power erachter staat.

Ons toonaangevend ondersteuningsysteem houdt u bedrijfsklaar voor zolang u uw Doosan Portable Power machine bezit. Doosan Portable Power streeft ernaar het product gedurende de volledige levensduur te ondersteunen. We bieden u en uw bedrijf een uiterst waardevolle bron van productinformatie, financiële dienstverlening, opleidingen, technische onderhoudsbulletins, onderhoud, onderdelen en meer...

## Gemoedsrust

Alle compressorpakketten hebben een standaardgarantie van **1 jaar of 2000 uur**.

De motor en compressiemodule combinatie hebben echter een **standaardgarantie van 2 jaar of 4000 uur**. Op voorwaarde dat enkel originele onderdelen gebruikt worden en dat vloeistoffen, filters en de machine op de correcte aangegeven intervallen door een erkende DI PP-verdeler aan onderhoud worden onderworpen, kan de **garantie op de aandrijflijn verlengd worden tot 5 jaar of 10.000 uur**. Deze garantieoptie verbetert de doorverkoopwaarde door de mogelijkheid om de garantie van de ene eigenaar op de andere over te dragen.

## Oplossing voor vervangingsmarkt

- Opslagprogramma voor verdeler voor vaakgebruikte onderdelen
- Onmiddellijke beschikbaarheid voor andere onderdelen
- Ondersteuning voor u en uw verdeler met kennis over foutopsporing bij moeilijke onderhoudsproblemen

## Financiële oplossingen

Financiële en leasingopties op maat voor uw individuele bedrijfsbehoeften.

Onze vereenvoudigde leningstoepassing en kredietgoedkeuringsprocedure kunnen uw plannen snel omzetten in realiteit.

## Meer dan compressors



Specificaties en ontwerp zijn zonder voorafgaande kennisgeving voor wijzigingen vatbaar. Het afgebeelde Doosan Portable Power-product behoort mogelijk niet tot de standaarduitrusting.

[www.doosanportablepower.com](http://www.doosanportablepower.com)



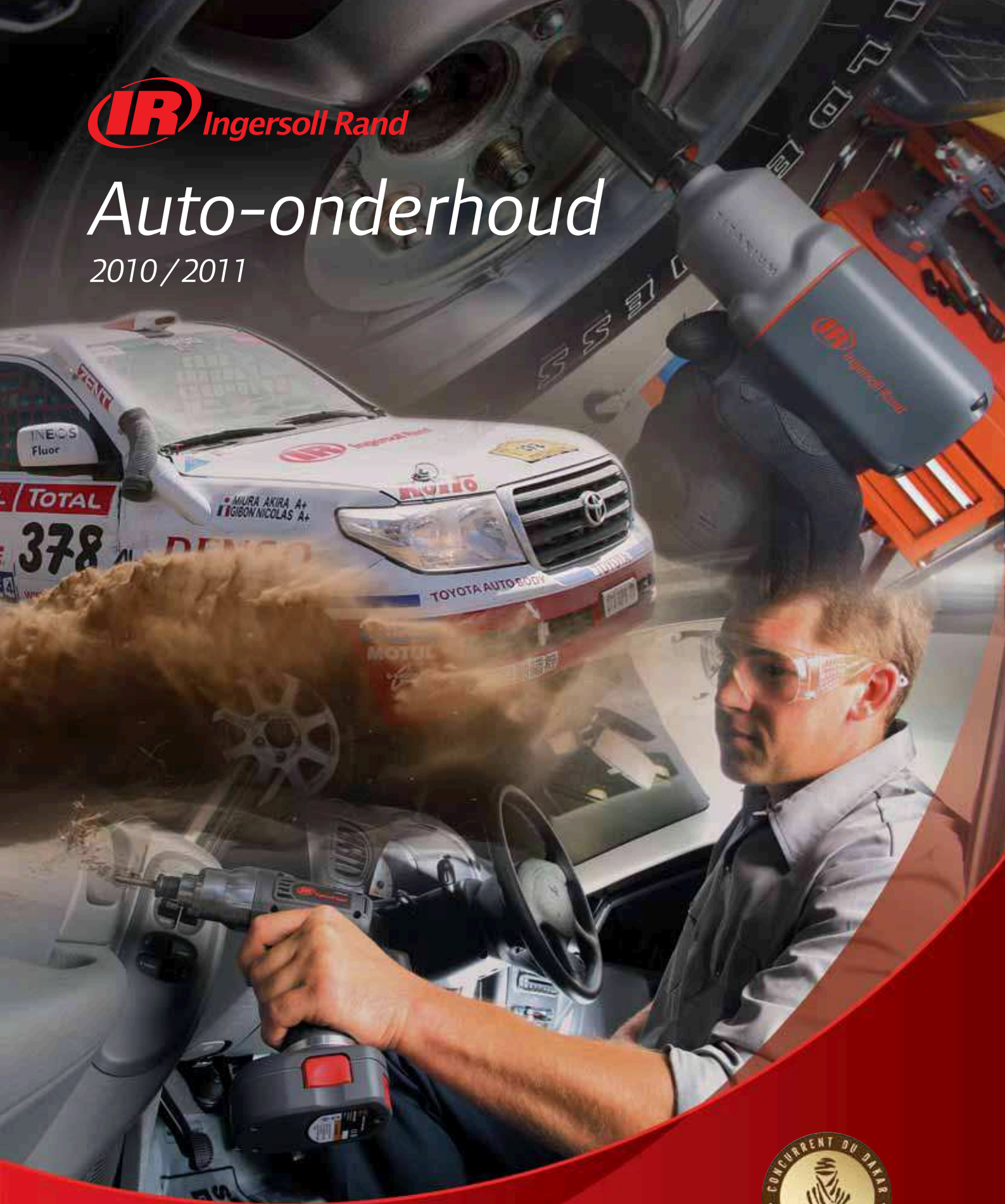
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# Auto-onderhoud

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