



Direct Driven Rotary Screw Air Compressors



MADE IN TURKEY

PVi 5,5 & PVi 430
4 kw & 315 kw

www.pumacompressor.com

PUMA
AIR COMPRESSORS

AIR DRYERS



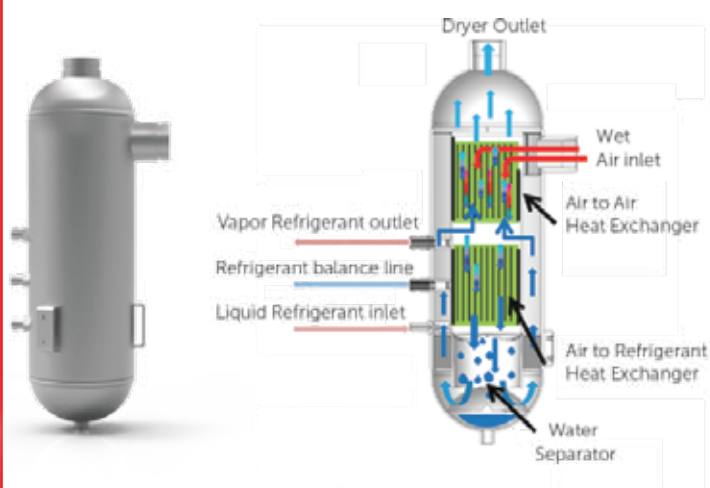
■ Compact Design



■ Dew Point Indicator



■ Aluminum Plate Heat Exchanger is standard



■ Zero Clearance Compressed Air Filters with High Performance Elements



■ Pressure Drop Alarm Sensor



PUMA INVERTER SERIES TECHNICAL DATA

Code Model							
	Pressure Bar	Min.Fad m3/min.	Max.Fad m3/min.	HP	KW	Dimensions (mm)	Weight (kg)
PVi 5,5	7,5	0,28	0,56	5,5	4	1050*600*970	195
	10	0,23	0,46				
	13	0,18	0,35				
PVi 7,5	7,5	0,33	0,65	7,5	5,5	1050*600*970	220
	10	0,30	0,60				
	13	0,25	0,50				
PVi 10	7,5	0,55	1,10	10	7,5	1050*600*970	235
	10	0,48	0,95				
	13	0,38	0,75				
PVi 15	7,5	0,83	1,65	15	11	1050*600*970	268
	10	0,68	1,35				
	13	0,55	1,10				
PVi 20	7,5	1,25	2,50	20	15	1200*690*1140	375
	10	1,02	2,04				
	13	0,80	1,60				
PVi 25	7,5	1,50	3,00	25	18,5	1200*690*1140	437
	10	1,30	2,60				
	13	1,10	2,20				
PVi 30	7,5	1,75	3,50	30	22	1200*690*1140	460
	10	1,55	3,10				
	13	1,35	2,70				
PVi 40	7,5	2,05	4,10	40	30	1100*1340*1800	650
	10	1,80	3,60				
	13	1,58	3,15				
PVi 50	7,5	3,10	6,20	50	37	1100*1340*1800	700
	10	2,65	5,30				
	13	2,30	4,60				
PVi 60	7,5	3,85	7,70	60	45	1100*1340*1800	800
	10	3,30	6,60				
	13	2,70	5,40				
PVi 75	7,5	4,65	9,30	75	55	1400*1950*1910	1500
	10	4,00	8,00				
	13	3,30	6,60				
PVi 100	7,5	6,15	12,30	100	75	1400*1950*1910	1600
	10	5,50	11,00				
	13	4,75	9,50				
PVi 125	7,5	7,50	15,00	125	90	1400*1950*1910	2240
	10	6,60	13,20				
	13	5,75	11,50				
PVi 150	7,5	9,40	18,80	150	110	1400*1950*1910	2500
	10	8,25	16,50				
	13	7,00	14,00				
PVi 180	7,5	11,40	22,80	180	132	1750*2500*2000	2873
	10	9,75	19,50				
	13	8,00	16,00				
PVi 220	7,5	13,70	27,40	220	160	1750*2500*2000	3030
	10	11,50	23,00				
	13	9,75	19,50				
PVi 270	7,5	18,05	36,10	270	200	2250*3000*2400	4950
	10	15,00	30,00				
	13	12,00	24,00				
PVi 340	7,5	22,00	44,00	340	250	2250*3000*2400	5540
	10	18,75	37,50				
	13	15,65	31,30				
PVi 430	7,5	26,25	52,50	430	315	2250*3250*2400	6025
	10	22,75	45,50				
	13	19,50	39,00				

DIRECT DRIVEN WORKING SYSTEM



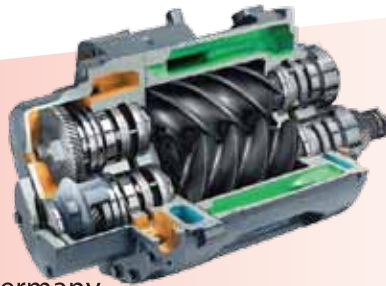
- **Direct-driven 1:1 mechanism** with made by USA flexible coupling for energy saver
- High Efficiency IE-2 and IE-3 , **IP-55 protection class Electric Motors**
- **VSD drive with heavy-duty** made by Japan frequency converter (optional)

SCREW AIR UNIT



Made in Germany

**Low Rpm,
Long Working Life**



- **High Technology** from Germany
- **High Efficiency** and **low maintenance costs**
- New generation rotary screw air end with **high capacity** efficiency, durability and low energy consumption
- New generation **bearing design** with high load carrying capacity

AIR INTAKE SYSTEM



- **Special Design intake** valve with load and unload control, **High intake flow** efficiency due to low pressure drop intake valves
- Glass-fibre prefilter provides efficient **pre-separation** and cleaner compressor canopy
- Air intake **filter with high dust** capacity, long service life and up to 99 % separation efficiency

CABIN SYSTEM

- Compact design for easy transportation and **low working area**
- Coated by **electrostatic powder paint** for damages and corruptions
- Cabin inlet coated by **fireproof sound isolations** for **low noise level**
- All cabin **covers can open completely** for easy maintenance

COOLING SYSTEM



- Four-way thermostatic valve ensures all PUMA rotary screw compressors work at **optimum temperature** during the operation
- **Thermostatic valve** increases cooling performance and eliminates the risk of water condensation **inside the air-oil separator tank**



SAFETY SYSTEM

- High Electric Current Protector For **Main Motor**
- High Electric **Current Protector** For **Fan Motor**
- Phase Sequence control system for protection **to wrong rotate**
- High **Oil Temperature Protection System**

COOLING SYSTEM

- **Aluminum bar** and plate type compressor cooler which manufactured by vacuum-brazing **technology** for **high efficiency and long life**
- **Combi-cooler** design with oil cooler for compressor oil and integrated aftercooler to **ensure low compressed air outlet temperature**
- **Axial cooling** fans on main motor
- Separate, **temperature controlled**, silent and energy **efficient axial** cooling fans



SAFETY SYSTEM

- High **Pressure Protection** System
- **Safety Valves**
- **Emergency** Stop Button
- Maintenance and **Faults Warning** System

AIR / OIL SEPERATORS AND OIL FILTER



- **Easily replaceable spin-on** type special design separator
- High capacity, **longlife** in line separator
- **Special Air-Oil** separator tanks are designed by latest engineering softwares for low pressurre drop, high separation **efficiency and low acoustinc** emmision
- High **performance design with three-stage** separation
- **Low oil** carryover ≤ 3 ppm
- **10 micron** oil filter

INVERTER CONTROL SYSTEM



YASKAWA
Made in Japan

- Energy **savings up to 35 %**
- **Inverter Integrated** to Electric case
- Maximum energy saver with **Special prepared inverter software for Puma air compressors**
- **Low demerage** electric current with soft Start Electric **motors for energy saver**
- Puma Inverter series provide stable **pressure to users**
- **More long** life compressors components with low load and **unload working**
- **Prevent to mechanical** lose with Variable speed rotors

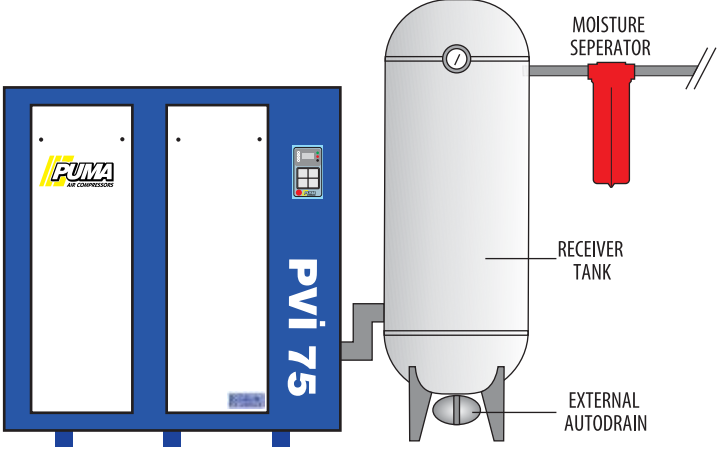
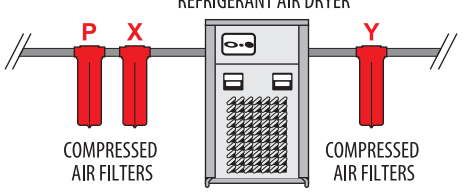
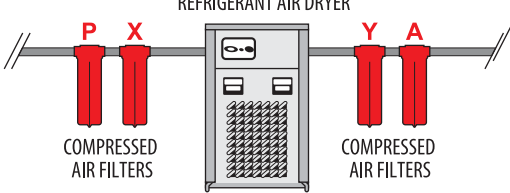
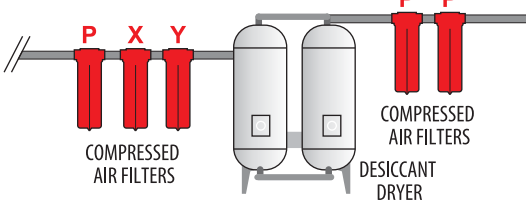
PLC CONTROL SYSTEM



- User friendly and multi functional **PLC electronic compressor controller**

AIR DRYER SPECIFICATIONS

Model	Capacity (m ³ /h)	Voltage	Connection	Filter Type	Element Type	Pressure Drop (mbar)	Controller	Max. Working Pressure	Max. Ambient Temperature (°C)	Max. Air Inlet Temperature (°C)
MKE-23	23	230/1/50	1/2"	1 *GK050X + 1 * GK050Y	MK050 KIT	150	-	16	45	50
MKE-38	38	230/1/50	1/2"	1 *GK050X + 1 * GK050Y	MK050 KIT	220	-	16	45	50
MKE-53	53	230/1/50	1/2"	1 *GK050X + 1 * GK050Y	MK050 KIT	350	-	16	45	50
MKE-100	100	230/1/50	3/4"	1 *GK0150X + 1 * GK0150Y	MK0150 KIT	100	-	16	45	50
MKE-155	155	230/1/50	3/4"	1 *GK0150X + 1 * GK0150Y	MK0150 KIT	220	-	16	45	50
MKE-190	190	230/1/50	3/4"	1 *GK0150X + 1 * GK0150Y	MK0150 KIT	320	-	16	45	50
MKE-210	210	230/1/50	1 1/2"	1 *GK0500X + 1 * GK0500Y	MK0500 KIT	220	-	16	45	50
MKE-305	305	230/1/50	1 1/2"	1 *GK0500X + 1 * GK0500Y	MK0500 KIT	320	-	16	45	50
MKE-375	375	230/1/50	1 1/2"	1 *GK0500X + 1 * GK0500Y	MK0500 KIT	200	-	16	45	50
MKE-495	495	230/1/50	2"	1 *GK0851X + 1 * GK0851Y	MK0851 KIT	310	-	16	45	50
MKE-623	623	230/1/50	2"	1 *GK01210X + 1 * GK01210Y	MK01210 KIT	240	-	16	45	50
MKE-930	930	230/1/50	2"	1 *GK01210X + 1 * GK01210Y	MK01210 KIT	150	-	16	45	50
MKE-1200	1200	230/1/50	2"	1 *GK01210X + 1 * GK01210Y	MK01210 KIT	190	-	16	45	50
MKE-1388	1388	400/3/50	3"	1 *GK01820X + 1 * GK01820Y	MK01820 KIT	350	-	16	45	50
MKE-1800	1800	400/3/50	3"	1 *GK01820X + 1 * GK01820Y	MK01820 KIT	290	-	16	45	50
MKE-2500	2500	400/3/50	3"	1 *GK02700X + 1 * GK02700Y	MK02700 KIT	190	-	16	45	50
MKE-2775	2775	400/3/50	3"	1 *GK02700X + 1 * GK02700Y	MK02700 KIT	350	-	16	45	50
MKE-3330	3330	400/3/50	DN100	Not included	Not included	270	-	16	45	50
MKE-3915	3915	400/3/50	DN100	Not included	Not included	380	-	16	45	50
MKE-5085	5085	400/3/50	DN100	Not included	Not included	320	ESD-3	16	45	50
MKE-5850	5850	400/3/50	DN100	Not included	Not included	350	ESD-3	16	45	50
MKE-6975	6975	400/3/50	DN150	Not included	Not included	320	ESD-3	16	45	50
MKE-7875	7875	400/3/50	DN150	Not included	Not included	350	ESD-3	16	45	50
MKE-9000	9000	400/3/50	DN150	Not included	Not included	350	ESD-3	16	45	50
MKE-10500	10500	400/3/50	DN200	Not included	Not included	350	ESD-3	16	45	50
MKE-12500	12500	400/3/50	DN200	Not included	Not included	350	ESD-3	16	45	50

AIR LINE DESIGN	AIR LINE DESIGN 1	APPLICATION
 Compressed Air Filter Types P – Prefilter / Particulate Filter X – General Purpose Filter / Water Removal Y – Coalescing Filter / Oil Removal A – Activated Carbon Filter / Odor Removal	REFRIGERANT AIR DRYER  GENERAL PURPOSE	
	AIR LINE DESIGN 2 REFRIGERANT AIR DRYER  GENERAL PURPOSE	
	AIR LINE DESIGN 3 (DESICCANT DRYER)  ODORLESS	

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