

# INVERSYS PLUS

Rotary Screw Air Compressors



5,5-315 kW

**DALGAKIRAN**



0,36-54,10  
m<sup>3</sup>/min

5,5-315  
kW

7,5-10-13  
bar



## **INVERSYS PLUS SERIES**

*Oil Injected, Direct Coupled, Variable Speed  
Rotary Screw Air Compressor*

Thanks to its high quality equipment and advanced engineering design, it provides an efficient and flexible use according to your industrial production needs.



### **Advantages**

- Up to 65% energy saving\*
- Operation at constant output pressure value
- Wide operating pressure range (5-14 bar)\*\*
- Long component life cycle thanks to soft start
- Protection against the adverse effects of peak currents
- Effective and energy efficient compressed air production even in case of highly variable compressed air requirements

\* When compared with compressors without an inverter for applications with variable requirements

\*\* If requested, it is produced specially according to the need.





## Main Motor and Drive System

- IE3 efficiency-class electric motor
- Direct coupled (1:1) with the elastic coupling
- Elastomeric coupling for a maintenance free long-lasting and efficient power transmission system
- Variable-speed starting with frequency converter
- High temperature protection for motor bearings (Inversys 15-315 Plus)



## Screw Block

- A durable and specially selected patented screw block that provides high capacity air according to the capacity needs of each model
- New rotor profiles for reduced loss air production
- Next gen bearing design for improved load bearing capabilities



## Air & Oil Separator

- Spin-on or immersion type separator design depending on the product series
- Easy-to-detach spin-on type separator (Inversys 5-37 Plus)
- High-efficiency immersion type separator with long service life (Inversys 45-315 Plus)



## Controller

- Internal ModBus communication
- User-friendly on-screen interface
- Without the need for an external main controller, Ability to co-aged work synchronized with Master/Slave for up to 2 compressors in 22 kW and below models, Multi-operation capability of up to 5 compressors in 30 kW and above models
- The ability to perform both pressure and temperature PID at the same time with its Dual PID feature (30 kW and above)



## Cooling System

- Temperature controlled axial fan (Inversys 5-22 Plus)
- Optimum working temperature thanks to inverter controlled fans, provides additional energy efficiency (Inversys 30-315 Plus)



Model	Pressure		Capacity*				Motor (kW/HP)	Connection	Dimensions [Width x Length x Height] (mm)		Weight (kg)	
	bar	psi	Minimum m³/min	Minimum cfm	Maximum m³/min	Maximum cfm			Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer
INVERSYS 5 PLUS	7,5	110	0,38	13,4	1,03	36	5,5/7,5	G 1/2"	1058 x 650 x 963	1828 x 650 x 1438	235	366
	10	145	0,37	13	0,83	29						
	13	190	0,36	12,7	0,64	22,6						
INVERSYS 7 PLUS	7,5	110	0,42	14,8	1,4	49,4	7,5/10	G 1/2"	1058 x 650 x 963	1828 x 650 x 1438	273	436
	10	145	0,43	15,1	1,2	42,3						
	13	190	0,43	15,1	0,95	33,5						
INVERSYS 11 PLUS	7,5	110	0,77	27	1,8	64	11/15	G 3/4"	1200 x 730 x 1050	1911 x 730 x 1708	320	533
	10	145	0,81	29	1,61	57						533
	13	190	0,74	26	1,3	46						590
INVERSYS 15 PLUS	7,5	110	0,79	28	2,85	101	15/20	G 3/4"	1200 x 730 x 1050	1911 x 730 x 1708	420	638
	10	145	0,77	27	2,33	82						638
	13	190	0,99	35	2,07	73						658
INVERSYS 18 PLUS	7,5	110	1,1	39	3,5	124	18,5/25	G 1"	1280 x 860 x 1435	-	500	-
	10	145	1	35	3	106						
	13	190	1,1	39	2,6	92						
INVERSYS 22 PLUS	7,5	110	1,3	46	4,2	148	22/30	G 1"	1280 x 860 x 1435	-	516	-
	10	145	1,3	46	3,8	134						
	13	190	1,2	42	3	106						
INVERSYS 30 PLUS	7,5	110	1,2	43	5,3	187	30/40	G 1 1/4"	1605 x 1040 x 1755	-	819	-
	10	145	1,2	43	4,6	162						
	13	190	1,2	43	4	141						
INVERSYS 37 PLUS	7,5	110	1,3	46	6,8	240	34/50	G 1 1/4"	1605 x 1040 x 1755	-	870	-
	10	145	1,3	46	5,8	205						
	13	190	1,3	46	5	177						
INVERSYS 45 PLUS	7,5	110	1,3	46	7,6	268	45/60	G 1 1/4"	1605 x 1040 x 1755	-	945	-
	10	145	1,2	42	6,8	240						
	13	190	1,2	42	5,9	208						
INVERSYS 55 PLUS	7,5	110	2,5	88	9,9	350	55/75	G 1 1/2"	2065 x 1200 x 1810	-	1524	-
	10	145	2,4	85	8,2	290						
	13	190	2,6	92	7,4	261						
INVERSYS 75 PLUS	7,5	110	2,6	92	12,9	456	75/100	G 1 1/2"	2065 x 1200 x 1810	-	1647	-
	10	145	2,5	88	10,9	385						
	13	190	2,5	88	9,6	339						
INVERSYS 90 PLUS	7,5	110	6,2	219	16,8	593	90/125	G 2"	2525 x 1440 x 2037	-	2020	-
	10	145	6	212	14,4	509						
	13	190	6,2	219	12,3	434						
INVERSYS 110 PLUS	7,5	110	6,6	233	20,1	710	110/150	G 2"	2525 x 1440 x 2037	-	2380	-
	10	145	7,1	250	17,3	611						
	13	190	7	247	15	530						
INVERSYS 132 PLUS	7,5	110	6,9	244	24,3	858	132/180	G 2 1/2"	2775 x 1820 x 2000	-	2555	-
	10	145	6,8	240	20,3	717						
	13	190	9,7	343	18,1	639						
INVERSYS 160 PLUS	7,5	110	6,8	240	28,2	996	160/220	G 2 1/2"	2775 x 1820 x 2000	-	2760	-
	10	145	7,1	251	24,6	869						
	13	190	8,5	300	21,7	766						
INVERSYS 200 PLUS	7,5	110	14	494	37,5	1324	200/270	DN80	3290 x 2285 x 2455	-	4460	-
	10	145	13,9	491	32,3	1141						
	13	190	13,8	487	28,8	1017						
INVERSYS 250 PLUS	7,5	110	13,6	480	45,2	1596	250/340	DN100	3315 x 2285 x 2455	-	5600	-
	10	145	13,5	477	38,5	1360						
	13	190	13,5	477	33,5	1183						
INVERSYS 315 PLUS	7,5	110	13,2	466	54,1	1911	315/430	DN100	3315 x 2285 x 2455	-	6000	-
	10	145	13,2	466	44,3	1564						
	13	190	12,9	456	38	1342						

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.  
- Dalgakiran reserves its rights to make changes in its products and specifications without prior notice.  
\* Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.

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