



AA6/AE6 SERIES
OIL INJECTED ROTARY SCREW AIR COMPRESSOR

AE6
Belt Driven



AA6
Direct Driven

Contemporary Design

Acoustic enclosures reduce sound levels. The compact design of its compressors ensure that minimum space is occupied.

Advanced Patented Profile

Third Generation Alpha Asymmetric 5 to 6 patented rotors profile are designed to operate at the low tip speed with high volumetric efficiency and minimal vibration.

MultiProtection Interlock

Advanced 32 bit "HANCON 2007" micro controller equipped with pressure transducers and temperature sensors provide diagnostics for additional protection of internal components. In addition, by incorporating Modbus communication protocol, one can have multiple master/ and slave controls.

Quality Certification

Hanbell utilizes 3D measuring devices to strictly maintain high quality standards. Every Hanbell Compressor is well proven and fully tested prior to delivery.

High Rigidity Chasis

Rigid design structure allows for less vibration and low noise during compressor operation. Common base frame is designed for easy handling through forklift.

Heart of Hanbell Compressors



When it comes to air end manufacturing, Hanbell has always been market leaders for the quality and precision that goes in its manufacturing. Hanbell's air end uses Third Generation Alpha Asymmetric 5 to 6 patented rotors profile which are designed to operate at low tip speed producing high volumetric efficiency and can achieve discharge pressure upto 16 bar. Hanbell air ends are fitted with heavy duty bearings which protects the air end from axial thrusts, thus avoiding damage to rotors and the casing.

Unparalleled Features & Benefits

1:1 Drive: Optimum Performance

The AA6 series works on direct drive mechanism, the air end takes power coming from the motor without any reductions which is usually in case of belt, pulley, gears, etc. To put it in simple terms, the motor is directly coupled with the rotors which produces the same power as the motor but at low tip speed. This uncomplicated structure reduces the number of components involved, reducing the vibration and resulting in lower noise emission. An additional advantage of the 1:1 drive is that this mechanism has few moving parts, therefore has better durability and minimal maintenance.

Intelligent Control System

Hanbell's 6 series compressors are fitted with advanced 32 bytes "HANCON 2007" micro computer controller, which enables to offer many alarm messages and many errors for protection; it is a versatile controller with smart remote and master/slave alternative control. It constantly monitors the operating parameters, and stores maintenance and alarm history.

Bigger Sized and Effective Cooler

Hanbell compressor uses aluminium vacuum brazed coolers of sufficiently large size and multiple fins helps in effective heat dissipation. A further advantage of having bigger sized cooler is that it can operate with lower sized cooling fans.

Excellent After Cooler and Oil Cooling System

Uniquely designed cooling system comprising of oil and after cooler lead to higher efficiency in heat exchange thus lowering the working temperature of discharge air and maintaining optimum oil temperature. The advantage of these specially designed fan is, it protects the lubrication system from any condensate formation. Hanbell coolers are sized to work even at high ambient of upto 45°C.

High Efficiency Design

Hanbell's rotors are manufactured using German Leitz CNC 3-D Coordinate measuring machine and QUINDOS Testing software that ensures its incomparable precision.

Durable Rigid Piping

All Hanbell compressors are provided with rigid piping. Rigid seamless piping provides additional protection against air and oil leakage.

Specification of AE6

Air Cooled

Model				AE6-08A	AE6-11A	AE6-15A	AE6-18A	AE6-22A	AE6-30A	AE6-37A	AE6-45A	AE6-55A	AE6-75A	
Compressor	Air Flow	7 bar	cfm	42	60	85	113	134	176	226	265	353	494	
		0.7 Mpa	m ³ /min	1.2	1.7	2.4	3.2	3.8	5.0	6.4	7.5	10.0	14.0	
		8 bar	cfm	39	56	75	106	127	166	215	251	332	462	
		0.8 Mpa	m ³ /min	1.1	1.6	2.2	3.0	3.6	4.7	6.1	7.1	9.4	13.1	
		10 bar	cfm	35	49	67	95	113	152	191	226	304	416	
		1.0 Mpa	m ³ /min	1.0	1.4	1.9	2.7	3.2	4.3	5.4	6.4	8.6	11.8	
	Air Outlet Size (Inch)				3/4"	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
Transmission Mode				Belt Driven										
Lubricant Volume (L)				8	9	10	10	16	18	18	25	60	65	
Motor	Rated Output(kW)				7.5	11	15	18	22	30	37	45	55	75
	Rated Output(Hp)				10	15	20	25	30	40	50	60	75	100
	Frequency (Hz)				50Hz									
	Type				TEFC									
	Starting				DOL		Y-Δ							
Safety Protection				Safety Valve, High Discharge Temperature and Pressure Protection, Over Current Protection, Phase Loss/Phase Sequence Monitoring										
Maintenance Indication				Air Filter, Oil Filter, Fine Separator, Oil Change, Belt, Motor Greasing										
Micro Controller				Digital Temperature/Pressure Display Control, Auto Running/Stop Control, Timer Running/Stop Control, Master/Slave Interlock Control (Optional), Scalable Central Monitor (Optional).										
Net Weight (kg)				280	300	380	450	500	700	780	900	1300	1500	
Outline Dimension	Length (mm)				820	870	1050	1050	1150	1150	1100	1100	1800	1960
	Width (mm)				660	660	700	750	850	850	1100	1100	1300	1500
	Height (mm)				920	980	1030	1100	1300	1300	1400	1400	1750	1750

Note: All the above models can also be offered with Variable Frequency Drive (VFD)

- The technical data is based on ISO1217.
- Water cooled model is available for models above 45kW.
- Models above 160kW is also available, please contact us for your specific requirements.
- In addition to the above mentioned models: 4 bar to 7 bar and 10 bar to 16 bar, can also be offered.
- Hanbell reserves the right to change the design without notice.

Specification of AA6

Air Cooled

Model				AA6-22A	AA6-37A	AA6-45A	AA6-55A	AA6-75A	AA6-90A	AA6-110A	AA6-132A	AA6-160A	
Compressor	Air Flow	7 bar	cfm	138	251	296	371	494	610	752	872	1052	
		0.7 MPa	m ³ /min	3.9	7.1	8.4	10.5	14.0	17.5	21.3	24.7	29.8	
		8 bar	cfm	131	240	282	346	462	593	706	819	995	
		0.8 Mpa	m ³ /min	3.7	6.8	8.0	9.8	13.1	16.8	20.0	23.2	28.2	
		10 bar	cfm	120	219	247	318	416	494	628	731	889	
	1.0 MPa	m ³ /min	3.4	6.2	7.0	9.0	11.8	14.0	17.8	20.7	25.2		
	Air Outlet Size (Inch)				1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	DN65-16	DN80-16	DN80-16	DN80-16
Transmission Mode		Direct Coupled Drive											
Lubricant Volume (L)				19	22.5	22.5	50	50	70	70	70	90	
Motor	Rated Output(kW)				22	37	45	55	75	90	110	132	160
	Rated Output(Hp)				30	50	60	75	100	120	150	175	210
	Frequency (Hz)				50Hz								
	Type				TEFC								
	Starting				Y-Δ								
Safety Protection		Safety Valve, High Discharge Temperature and Pressure Protection, Over Current Protection, Phase Loss/Phase Sequence Monitoring											
Maintenance Indication		Air Filter, Oil Filter, Fine Separator, Oil Change, Motor Greasing											
Micro Controller		Digital Temperature/Pressure Display Control, Auto Running/Stop Control, Timer Running/Stop Control, Master/Slave Interlock Control (Optional), Scalable Central Monitor (Optional).											
Net Weight (kg)				800	900	1020	1600	1900	2400	2700	2700	3000	
Outline Dimension	Length (mm)				1400	1450	1500	1750	1850	2150	2150	2150	2950
	Width (mm)				802	900	1150	1200	1300	1460	1460	1460	2100
	Height (mm)				1000	1400	1400	1350	1400	1620	1620	1620	2080

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