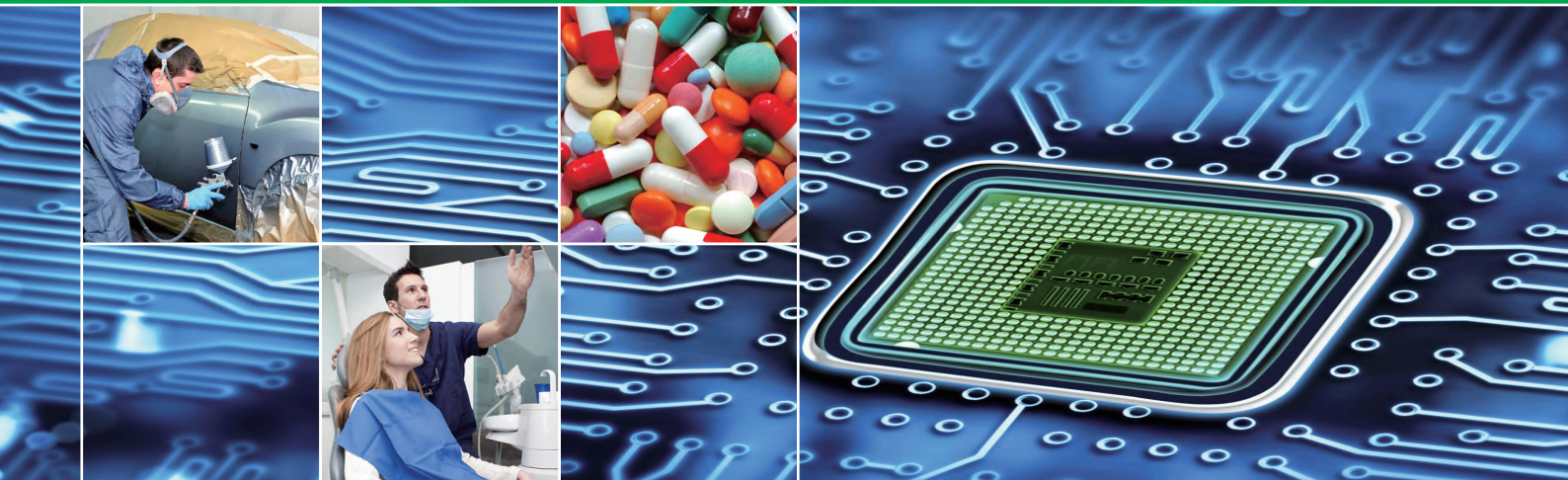




**TEWATT**

# Oil Free Air Compressors

Installed motor power 2.2 - 315 kW/3 - 425 hp  
Free air delivery from 0.21 to 57.17 m<sup>3</sup>/min,  
Pressure 2.5 - 10.5 bar



## CONTENTS

- 01 OIL FREE SCROLL AIR COMPRESSOR
- 02 DRY TYPE OIL FREE SCREW AIR COMPRESSOR



# OIL FREE SCROLL AIR COMPRESSOR

## Features and advantages

Mute, clean, energy saving and efficient.

100% oil free (class 0).

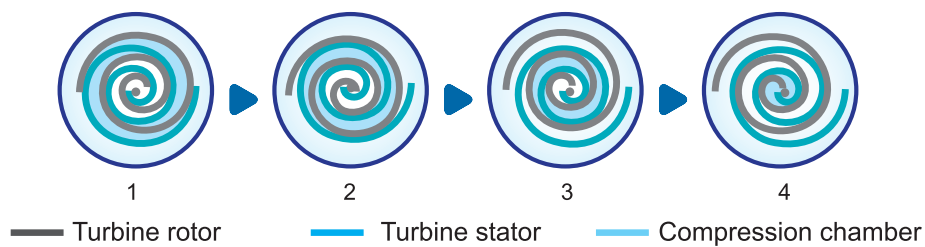
Delivers 11-15% more air compared to similar designs with no additional power.

Better in durability and longevity.



## Working principle

The turbine rotor turns in sequence of Picture 1→2→3→4, air is sucked into the space between turbine stator and turbine rotor, the volume of crescent-shaped (in point symmetry) compression chamber gradually decreases, compressed air is discharged through air outlet of central portion.





**TEWATT**

Technical parameters for 7.5-10.5 bar models

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
			50 Hz		60 Hz						L	W	H		
	bar(g)	psig	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	hp							
TWT-45	7.0	102	7.07	250	7.16	253	45	60	Air Cooling W-Water Cooling	80	2100	1500	1790	2630	R1-1/2"
	8.0	116	7.03	248	6.48	229	45	60		80	2100	1500	1790	2630	R1-1/2"
	10.0	145	5.51	194	5.37	189	45	60		80	2100	1500	1790	2630	R1-1/2"
TWT-55	7.0	102	9.37	331	8.87	313	55	75		80	2100	1500	1790	2650	R1-1/2"
	8.0	116	9.34	330	8.25	291	55	75		80	2100	1500	1790	2650	R1-1/2"
	10.0	145	8.11	286	7.10	251	55	75		80	2100	1500	1790	2650	R1-1/2"
TWT-75	7.0	102	12.72	449	12.60	445	75	100		82	2300	1600	1790	2850	DN50
	8.0	116	12.69	448	11.69	413	75	100		82	2300	1600	1790	2850	DN50
	10.0	145	11.58	409	10.43	368	75	100		82	2300	1600	1790	2850	DN50
TWT-75W	7.0	102	12.72	449	12.60	445	75	100		82	2300	1600	1790	2850	DN50
	8.0	116	12.69	448	11.69	413	75	100		82	2300	1600	1790	2850	DN50
	10.0	145	11.58	409	10.43	368	75	100		82	2300	1600	1790	2850	DN50
TWT-90	7.0	102	13.66	482	14.62	516	90	120		82	2300	1600	1790	2850	DN50
	8.0	116	13.64	482	14.60	515	90	120		82	2300	1600	1790	2850	DN50
	10.0	145	12.64	446	12.86	454	90	120		82	2300	1600	1790	2850	DN50
TWT-90W	7.0	102	13.66	482	14.62	516	90	120	82	2300	1600	1790	2850	DN50	
	8.0	116	13.64	482	14.60	515	90	120	82	2300	1600	1790	2850	DN50	
	10.0	145	12.64	446	12.86	454	90	120	82	2300	1600	1790	2850	DN50	
TWT-110	7.0	102	19.16	676	17.50	618	110	150	85	2800	1800	1860	3050	DN65	
	8.0	116	19.13	675	17.47	617	110	150	85	2800	1800	1860	3050	DN65	
	10.0	145	16.72	590	15.41	544	110	150	85	2800	1800	1860	3050	DN65	
TWT-110W	7.0	102	19.16	676	17.50	618	110	150	85	2800	1800	1860	3050	DN65	
	8.0	116	19.13	675	17.47	617	110	150	85	2800	1800	1860	3050	DN65	
	10.0	145	16.72	590	15.41	544	110	150	85	2800	1800	1860	3050	DN65	
TWT-132	7.0	102	22.63	799	23.29	822	132	175	85	2800	1800	1860	3385	DN65	
	8.0	116	22.60	798	23.27	822	132	175	85	2800	1800	1860	3385	DN65	
	10.0	145	20.28	716	20.46	723	132	175	85	2800	1800	1860	3385	DN65	
TWT-132W	7.0	102	22.63	799	23.29	822	132	175	85	2800	1800	1860	3385	DN65	
	8.0	116	22.60	798	23.27	822	132	175	85	2800	1800	1860	3385	DN65	
	10.0	145	20.28	716	20.46	723	132	175	85	2800	1800	1860	3385	DN65	
TWT-160	7.0	102	27.40	967	27.28	963	160	215	85	2800	1800	1860	3385	DN65	
	8.0	116	27.38	967	27.26	962	160	215	85	2800	1800	1860	3385	DN65	
	10.0	145	23.98	847	26.38	931	160	215	85	2800	1800	1860	3385	DN65	
TWT-160W	7.0	102	27.40	967	27.28	963	160	215	85	2800	1800	1860	3385	DN65	
	8.0	116	27.38	967	27.26	962	160	215	85	2800	1800	1860	3385	DN65	
	10.0	145	23.98	847	26.38	931	160	215	85	2800	1800	1860	3385	DN65	

\*) FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

\*\*\*) N/A-Not Available

**Specifications are subject to change without notice.**



**TEWATT**

Technical parameters for 7.5-10.5 bar models

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Cooling Method	Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50 Hz		60 Hz						L	W	H		
	bar(g)	psig	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	hp		[dB(A)]				kg	
TWT-185	7.0	102	30.37	1072	31.20	1102	185	250	Air Cooling W-Water Cooling	85	2800	1800	1860	3685	DN65
	8.0	116	30.34	1071	31.04	1096	185	250		85	2800	1800	1860	3685	DN65
	10.0	145	27.34	965	29.16	1030	185	250		85	2800	1800	1860	3685	DN65
TWT-185W	7.0	102	30.37	1072	31.20	1102	185	250		85	2800	1800	1860	3685	DN65
	8.0	116	30.34	1071	31.04	1096	185	250		85	2800	1800	1860	3685	DN65
	10.0	145	27.34	965	29.16	1030	185	250		85	2800	1800	1860	3685	DN65
TWT-200W	7.0	102	34.17	1206	34.82	1229	200	270		88	3100	2150	2200	4500	DN100
	8.0	116	34.14	1205	34.78	1228	200	270		88	3100	2150	2200	4500	DN100
	10.0	145	30.55	1079	28.42	1004	200	270		88	3100	2150	2200	4500	DN100
TWT-220W	7.0	102	36.71	1296	37.35	1319	220	300		88	3100	2150	2200	4750	DN100
	8.0	116	36.66	1295	37.30	1317	220	300		88	3100	2150	2200	4750	DN100
	10.0	145	34.03	1202	31.30	1105	220	300		88	3100	2150	2200	4750	DN100
TWT-250W	7.0	102	43.71	1543	44.27	1563	250	350		90	3100	2150	2200	4950	DN100
	8.0	116	43.66	1542	44.24	1562	250	350		90	3100	2150	2200	4950	DN100
	10.0	145	39.16	1383	37.20	1314	250	350		90	3100	2150	2200	4950	DN100
TWT-280W	7.0	102	47.65	1683	47.25	1668	280	375	92	3400	2400	2200	5100	DN100	
	8.0	116	47.61	1681	47.21	1667	280	375	92	3400	2400	2200	5100	DN100	
	10.0	145	43.58	1539	41.23	1456	280	375	92	3400	2400	2200	5100	DN100	
TWT-315W	7.0	102	52.44	1852	52.30	1847	315	425	92	3400	2400	2200	5150	DN100	
	8.0	116	52.40	1850	52.27	1846	315	425	92	3400	2400	2200	5150	DN100	
	10.0	145	47.53	1678	46.60	1645	315	425	92	3400	2400	2200	5150	DN100	

\*) FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

\*\*) N/A-Not Available

**Specifications are subject to change without notice.**



**TEWATT**

## Technical parameters for 2.5-3.5 bar models

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Cooling Method	Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50 Hz		60 Hz						L	W	H		
	bar(g)	psig	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	hp		[dB(A)]				kg	
TWT-55-2	2.5	37	15.33	541	14.44	510	55	75	Air Cooling W-Water Cooling	69	2400	1800	1700	2500	DN80
TWT-55-3	3.5	51	12.78	451	10.85	383	55	75		69	2400	1800	1700	2500	DN80
TWT-75-2	2.5	37	19.92	703	20.35	719	75	100		69	2400	1800	1700	2650	DN80
TWT-75-3	3.5	51	16.30	576	15.87	560	75	100		69	2400	1800	1700	2650	DN80
TWT-90-2	2.5	37	26.07	921	26.45	934	90	120		72	2400	1800	1700	2750	DN80
TWT-90-3	3.5	51	19.54	690	19.49	688	90	120		72	2400	1800	1700	2750	DN80
TWT-110(W)-2	2.5	37	33.16	1171	29.90	1056	110	150		72	3000	2000	2000	3500	DN125
TWT-110(W)-3	3.5	51	25.60	904	23.92	845	110	150		72	2400	1800	1700	3000	DN80
TWT-132(W)-2	2.5	37	40.24	1421	40.98	1447	132	175		72	3000	2000	2000	3600	DN125
TWT-132(W)-3	3.5	51	27.23	961	29.43	1039	132	175		72	2400	1800	1700	3100	DN80
TWT-160(W)-2	2.5	37	49.42	1745	49.21	1738	160	215		76	3000	2000	2000	3900	DN125
TWT-160(W)-3	3.5	51	35.75	1262	34.98	1235	160	215		76	3000	2000	2000	3800	DN125
TWT-185(W)-2	2.5	37	55.18	1948	57.17	2019	185	250		79	3000	2000	2000	4100	DN125
TWT-185(W)-3	3.5	51	42.21	1490	44.16	1559	185	250		79	3000	2000	2000	4000	DN125

\*) FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

**Specifications are subject to change without notice.**



**TEWATT**

## Technical parameters

Type	Maximum working pressure		Capacity FAD*				Installed motor power		No of air end	Air outlet pipe diameter	Noise Level**	Dimensions(mm)			Weight
			50 Hz		60 Hz							L	W	H	
	bar(g)	psig	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	hp	Units	inch	[dB(A)]				kg
TWT-2	7.5	109	0.25	9	0.24	8	2.2	3	1	Rc1/2"	65	840	780	1066	230
	8.5	123	0.24	9	0.23	8	2.2	3		Rc1/2"	65	840	780	1066	230
	10.5	152	0.22	8	0.21	7	2.2	3		Rc1/2"	65	840	780	1066	230
TWT-3	7.5	109	0.40	14	0.43	15	3.7	5	1	Rc1/2"	65	840	780	1066	230
	8.5	123	0.39	14	0.40	14	3.7	5		Rc1/2"	65	840	780	1066	230
	10.5	152	0.37	13	0.37	13	3.7	5		Rc1/2"	65	840	780	1066	230
TWT-5	7.5	109	0.51	18	0.47	16	5.5	7.5	2	Rc1"	68	930	1200	1230	360
	8.5	123	0.48	17	0.46	16	5.5	7.5		Rc1"	68	930	1200	1230	360
	10.5	152	0.44	16	0.42	15	5.5	7.5		Rc1"	68	930	1200	1230	360
TWT-7	7.5	109	0.80	28	0.86	30	7.5	10	2	Rc1"	68	930	1200	1230	360
	8.5	123	0.78	28	0.80	28	7.5	10		Rc1"	68	930	1200	1230	360
	10.5	152	0.74	26	0.74	26	7.5	10		Rc1"	68	930	1200	1230	360
TWT-11	7.5	109	1.20	42	1.26	44	11	15	3	Rc1"	70	1400	910	1320	500
	8.5	123	1.17	41	1.20	42	11	15		Rc1"	70	1400	910	1320	500
	10.5	152	1.11	39	1.10	39	11	15		Rc1"	70	1400	910	1320	500
TWT-15	7.5	109	1.60	56	1.73	61	15	20	4	Rc1"	70	1930	1270	1340	720
	8.5	123	1.56	55	1.61	57	15	20		Rc1"	70	1930	1270	1340	720
	10.5	152	1.47	52	1.47	52	15	20		Rc1"	70	1930	1270	1340	720
TWT-18	7.5	109	2.00	71	2.07	73	18	25	5	Rc1"	72	1930	1270	1340	860
	8.5	123	1.95	69	1.97	70	18	25		Rc1"	72	1930	1270	1340	860
	10.5	152	1.84	65	1.81	64	18	25		Rc1"	72	1930	1270	1340	860
TWT-22	7.5	109	2.40	85	2.53	89	22	30	6	Rc1"	72	1930	1270	1340	900
	8.5	123	2.34	83	2.41	85	22	30		Rc1"	72	1930	1270	1340	900
	10.5	152	2.21	78	2.21	78	22	30		Rc1"	72	1930	1270	1340	900
TWT-30	7.5	109	3.20	113	3.44	121	30	40	8	Rc1-1/4"	75	2030	1260	1720	1200
	8.5	123	3.12	110	3.28	116	30	40		Rc1-1/4"	75	2030	1260	1720	1200
	10.5	152	2.95	104	3.01	106	30	40		Rc1-1/4"	75	2030	1260	1720	1200
TWT-37	7.5	109	4.00	141	4.25	150	37	50	10	Rc1-1/2"	75	2030	1260	2100	1420
	8.5	123	3.89	138	4.05	143	37	50		Rc1-1/2"	75	2030	1260	2100	1420
	10.5	152	3.68	130	3.72	131	37	50		Rc1-1/2"	75	2030	1260	2100	1420

\*) FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

**Specifications are subject to change without notice.**



# DRY TYPE OIL FREE SCREW AIR COMPRESSOR

## Features and advantages



01

### State-of-the-art Screw Element

- Original Germany GHH air end
- Double stage compression
- Superior Sweden SKF element bearings



02

### Advanced Touch Screen Controller and Monitoring System

- Overall system performance status with pro-active service indications, alarms for malfunctions and safety shutdowns
- All monitoring and control functions via one interface, multi-language LCD available.
- Wide communication possibilities



03

### Electrical Components

Schneider electrical elements with original package from France, safe and reliable.



04

### Stainless Steel Oil Pipe and Air Pipe

- High temperature resistant (400°C=752°F) and low temperature resistant(- 270°C= - 518°F), high pressure resistant
- Ultra-long life (80 years), completely leak free and maintenance free



05

### Superior Air Filter

- Superior air filter with two-stage dust removal and filtering system with efficiency of up to 99.9% even in heavy-duty environments
- Extends the service life of the compressor parts and components, ensures high air quality



06

### Premium Efficiency Drive Motor

- Premium efficiency Totally Enclosed Fan Cooled (TEFC) IP54/IP55 motor (Class F insulation) protects against dust and chemicals etc.
- Long-term stable operation even in harsh environments up to 55 °C (131 °F)