



# Oil-injected Screw Compressor

TH 11-37

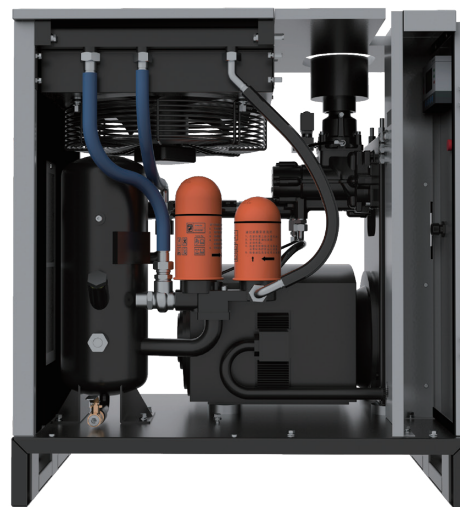




## A wise and affordable choice

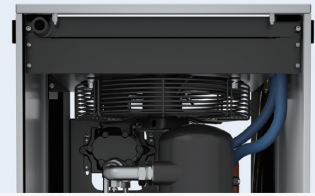
Tihawk air compressors provide you with reliable and continual compressed air for various compressed air application and industrial demands, with its imperial rigorous design concept from Europe.

- **One key start & stop:** simple and stable operation
- **Intelligent control system:** real-time monitoring operation status, including function of self-service reminder and fault inspection alarm, a friendly experience of human-machine interface
- **Concise layout internally:** for easier maintenance and less service time



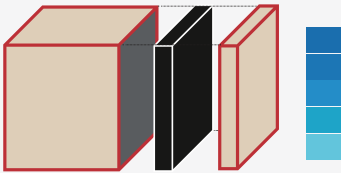
ISO 9001 · ISO 14001  
OHSAS 18001  
ISO 50001

# Stable operation, Reliable quality



## Cooling system

- Extra large surface cooler, allow maximum 46°C ambient environment use
- Thermostatic control cooling fan, efficiently prevents over-cooling and condensate



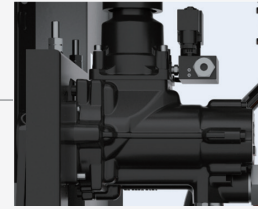
## Professional soundproof design

- Fully sealed cabinet with soundproofing and noise-reducing partitions to minimize noise



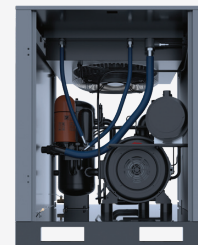
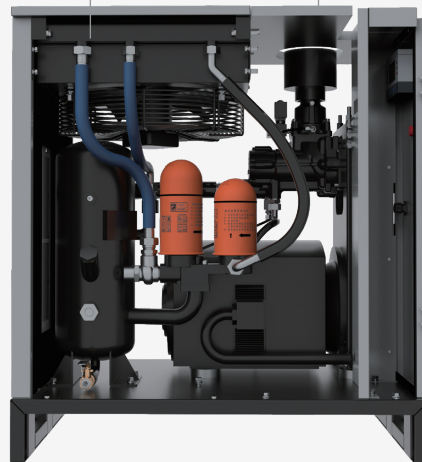
## Intelligent controller

- One key press to switch on/off
- Self-service timing management
- Self-protection at fault: auto-stop and check, instant alarm at the same time



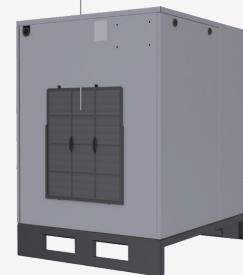
## Drive train

- Latest generation design air end
- Specific SAP rotors combination sharp
- High precision manufacturing process
- Results to high performance compressor air delivery



## Anti-leakage connection of pipes

- Hose and hard tube connection, with high temperature & pressure resistant hose and O rings, a fully rigid and stable structure design



## Pre-filtering

- Allows the maximum volume air inlet at the minimum pressure drop
- Slot design enables quick removal for regular cleaning

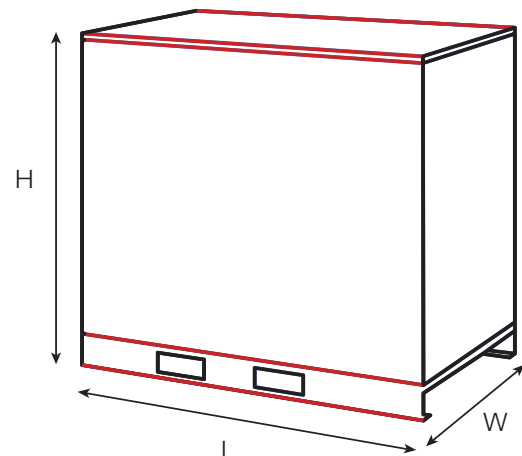




## TH technical data

Model	Pressure	Motor		Capacity			Noise	Weight	Connection
	MPa	kW	hp	l/s	CFM	m3/min	dB(A)	kg	G
TH 11	0.8	11	15	27.4	58	1.64	72	230	3/4"
	1.0			22.8	48	1.37			
TH 15	0.8	15	20	32.5	69	1.95	72.5	230	3/4"
	1.0			30.6	65	1.84			
TH 18.5	0.8	18.5	25	47.6	101	2.86	71.9	330	1"
	1.0			40.2	85	2.41			
TH 22	0.8	22	30	54.0	111	3.24	71.9	345	1"
	1.0			45.5	96	2.73			
TH 30	0.7	30	40	82.1	173	4.93	78.5	490	1 1/2"
	0.8			78.4	165	4.70			
	1.0			62.6	132	3.75			
TH 37	0.7	37	50	90.6	191	5.44	78.5	524	1 1/2"
	0.8			89.5	189	5.37			
	1.0			80.3	170	4.82			

Model	Dimension		
	Length mm	Width mm	Height mm
TH 11	650	850	930
TH 15	650	850	930
TH 18.5	710	740	1275
TH 22	710	740	1275
TH 30	860	850	1345
TH 37	860	850	1345





# Tihawk dryers: a complete solution for your quality air



## Pressure dew point 10°C

- High efficiency plate-fin heat exchanger
- Professional water removing function
- Low relative humidity in outlet air

## More energy efficiency

- 50% less energy consumption compared to shell and tube type dryers
- Environmental friendly refrigerant R134a and R410A

## More reliable

- Industrial grade refrigeration compressor
- Digital controller and PDP display
- Optimised piping system

Model	Air treatment capacity	Max power	Refrigerant	Length	Width	Hight	Weight	Connection
	m <sup>3</sup> /min	W		mm	mm	mm	kg	
<b>THD10</b>	1.0	350	R134a	353	430	445	30	G3/4"
<b>THD13</b>	1.3	400	R134a	550	370	704	30	G3/4"
<b>THD21</b>	2.1	453	R134a	550	370	704	34	G3/4"
<b>THD40</b>	4.0	843	R410A	520	500	809	55	G1"
<b>THD66</b>	6.6	1170	R410A	520	500	809	60	G1.5"
<b>THD85</b>	8.5	1200	R410A	550	600	958	68	G1.5"
<b>THD105</b>	10.5	1312	R410A	550	600	958	75	G2"
<b>THD140</b>	14.0	2143	R410A	900	750	1009	110	2"
<b>THD175</b>	17.5	2170	R410A	900	750	1009	126	2"





**Correction Factor • for conditions differing from the project  $K = A \times B \times C$**

**Room Temperature (A)**

Environment temperature (°C)	30	35	40	45
Correction factor	1	0.91	0.81	0.72

**Operating Temperature (B)**

Intake temperature (°C)	30	35	40	45	50	55	60
Correction factor	1	1	1	0.82	0.69	0.58	0.49

**Operating Pressure (C)**

Intake pressure (bar)	6	7	8	10	13
Correction factor	0.96	1	1.03	1.08	1.13

**Correction Factor of THD series refrigeration dryer dewpoint**

Outlet Pressure Dew Point (D)	Correction factor
10 °C	1
7 °C	0.85
3 °C	0.7





# Tihawk filter: THF series

## Strong performance filtration

There are solid particles, oil aerosol and humidity in compressed air, which could cause serious corrosion on pipes and equipment, even your products. Tihawk offers you a full solution to purify your compressed air.

- Glass fibre of element: Effective removal of dust, oil and humidity, with low pressure drop
- Enhanced high-performance stainless steel filter cores ensure ultimate strength and low risk of implosion, guaranteed lifetime performance
- Concise, robust and easy to install and maintain



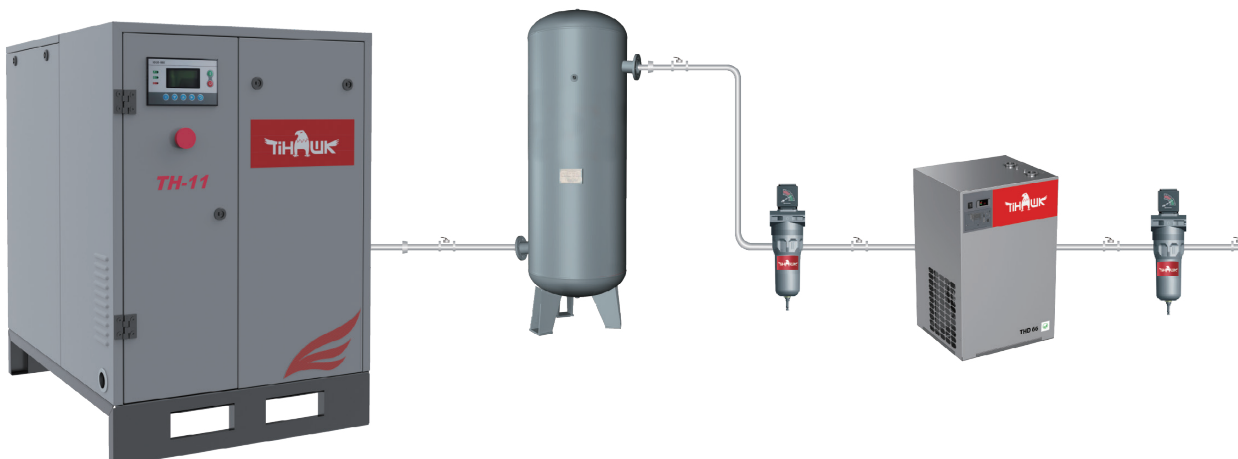
## THF technical data

Model	Capacity (m3/min)	Connection
THF9	0.9	3/8"
THF18	1.8	1/2"
THF25	2.5	1/2"
THF35	3.5	1"
THF60	6.0	1"
THF105	10.5	1 1/2"
THF140	14.0	1 1/2"
THF175	17.5	1 1/2"
THF260	26.0	2"
THF380	38.0	3"
THF490	49.0	3"

## THF fineness classification

Label	Filter Type	Oil Content	Test method	Initial Pressure drop(bar)	Max. Ambient Temperature (°C)
G	Standard fine filter	0.1ppm	ISO 12500-1 ISO 8573-2	0.12	66
C	Super-fine filter	00.1ppm	ISO 12500-1 ISO 8573-2	0.14	66
V	Active carbon filter	0.003ppm	ISO 8573-5	0.16	35

## The complete solution in a compressor room







## Care. Trust. Efficiency.

### Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

### Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

### Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.



Contact your local sales representative now!