

INSPECTION AND TEST PLAN (ITP)

Inspection and Test Plan Number 23383-08

Contract Number:
Customer:
Contractor:
Project:

Inspection and Test Plan For:
Screw Compressor & Roots Blower Package



DRAWINGS FOR APPROVAL

Format of this document need to modify accordance with project documentation.

Airpack 23-Dec-2025:
Confirmed, project format will be used for official project ITP after order.

For drawings and documents for approval, w Airpack reference number 23383-01.

LIST OF ABBREVIATIONS:

H = HOLD POINT

Means that a hold shall be applied to the production schedule.

For materials: the buyer must be invited for the inspection / test and the inspection / test must be carried out with the buyer in attendance.

For drawings / documents: Airpack must receive approved drawings / documents, stamped by buyer.

R = REVIEW POINT

Means that documents shall be available at final inspection for review as part of the data book.

W = WITNESS POINT

Means that the buyer requires notification of the inspection timing. However, if the inspection is performed as scheduled and if the buyer is not present, Airpack will carry out the test and proceed with production.

Q = QUALITY INSPECTION

Means that fabricated/purchased materials/parts of the package are checked by Airpack to be in accordance with the specifications.

RA= Review and Approve

Airpack 23-Dec-2025:
Confirmed, will be added.

E.P.M. = Engineering and Production manual (mandatory reference - ISO)

TPA = Thirty Party Agency

Airpack 23-Dec-2025:
Confirmed, will be added.

A= Approval

Airpack 23-Dec-2025:
Confirmed, will be added.



for all welding activities of all parts need to be added NDT and Weld map as required, WPS&PQR, Welder Qualification Certificates, NDT person Certificates and NDT procedures

Airpack 23-Dec-2025: Confirmed, will be added for applicable items.

TPA Airpack 23-Dec-2025: Confirmed, will be added.

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Airpack	Participation				REMARKS	
						Customer		Enduser			
						Code	Date	Code	Date		
A. Skid (S235)											
1.	Materials	Visual check Certificate check	100%	E.P.M. 11.1.1	EN 10204	3.1					Airpack 23-Dec-2025: Confirmed, PIM will be added.
Pre Inspection meeting need to be added											
2.	Materials	Visual check	100%	E.P.M. 11.1.1	EN 10204	3.1					Airpack 23-Dec-2025: Confirmed, skid material will be upgraded to S355 grade structural steel with type 3.1 material certificate.
Add the WPS &PQR RA,RA,RA											
3.	NDT	Welds check	100%	E.P.M. 11.1.1	EN 10204	3.1					Airpack 23-Dec-2025: Confirmed
4.	Dimensions	Dimensional check	Random	E.P.M. 11.3	General Arrangement Drawing		Q		R		Airpack 23-Dec-2025: Confirmed
5.	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.1	Painting procedure		Q		R		Airpack 23-Dec-2025: Confirmed, 'W' for certificate check during FAT.
Add the WPS &PQR RA,RA,RA											
B. Air piping (outside enclosure)											
1.	Materials	Visual check Certificate check	100%	E.P.M. 7.2.1	EN 10204	3.1					Airpack 23-Dec-2025: Confirmed
2.	Materials	Visual check	100%	E.P.M. 7.2.1	EN 10204	3.1					Airpack 23-Dec-2025: Confirmed
Add the WPS &PQR RA,RA,RA											
3.	NDT	Welds check	100%	ASME B31.3	NDT procedure		Q		R		Airpack 23-Dec-2025: Confirmed
4.	Hydrostatic Test	Welds check	100%	E.P.M. 7.3.1 ASME B31.3	Hydrostatic Test Procedure		Q		R		Airpack 23-Dec-2025: Confirmed
5.	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.3	Painting procedure		Q		R		Airpack 23-Dec-2025: Confirmed. Paint 'W' point final DFT check and colour check during FAT.

The below mentioned items should be added to Compressor and blower test:

	Vendor	DYPNF	TPI/ Client	Acceptance Criteria
1. Screw Balance test (main and spare screws):	H	H	W / R	ISO 1940 & approved procedure
2. MRT & Performance Test (FAT				
measurement)	H	H	W / R	API 619/Approved procedure
RT)	H	H	W / R	API 619/Approved procedure
ating, lining	H	H	W / R	Approved procedure
	H	H	W / R	Approved procedure
	H	H	W / R	Approved procedure
g, vessels, ...)	H	H	W / R	Approved procedure

TPA

Airpack 23-Dec-2025: Compressors will be subject to Aerzen standard QA/QC program including a mechanical running test. Certificate availability as indicated in right column. Tests are non-witnessed. Reports will be made available in MRB at Airpack facilities.

All units will be subject to full visual and functional test at Airpack facilities.

Complete unit running test to be performed at site during commissioning/SAT when packages are completely connected since Airpack does not provide any control system for these packages.

Airpack 23-Dec-2025: Compressor certificates availability as indicated in right column.

RA

Airpack 23-Dec-2025: Confirmed. Certificates to be checked in MRB at Airpack facilities.

	Enduser	REMARKS					
		Code	Date				
E.P.M. 7.2.1	EN 10204	3.1	Oil inspection certificate for compressor/blower stage 2.2 works certificate for silencer nsator	Q	R		
E.P.M. 2.1			Equipment data sheet approved	Q	R		
E.P.M 2.2.3			General Arrangement Drawing	Q	R		
E.P.M. 14.2.3			Painting procedure	Q	R		
D. Main E-motor							
1. Components	Visual check	Random	100 %	E.P.M. 3.1	Q	R	
2. Dimensions	Dimensional check	Random	100 %	E.P.M. 3.1.4	Q	R	
3. Performance	Certificate check	100%		E.P.M. 3.1	Q	R	
4. Painting	Certificate check Paint thickness check	Random		E.P.M. 14.2	Q	R	

Airpack 23-Dec-2025: For electric motors (MV & LV) refer to deviation list item no. 2. Motors will be subject to OEM standard routine test based on IEC standards. A routine test report will be provided for each motor. Type test report will be provided 1 no. for each motor type only for MV main motors. Tests are non-witnessed by client.

W

Oil demister motor tests should be added

Applicable certificates (e.g. IP, ATEX, Routine test, Type test) will be provided in MRB.

MV Motor :

- 1- Insulation resistance test
- 2- Temperature rise test
- 3- High voltage test
- 4- Motor Junction Box, Gland and Termination Check
- 5- IP Test Certificate for enclosure & terminal box
- 6- EX Certificate
- 7- Protection Device Operation Test
- 8- PT 100 sensor Check
- 9- Type test certificate's review
- 10- No-load test
- 11- Locked-rotor test

LV Motor :

- 1- Insulation resistance test
- 2- Motor Junction Box, Gland and Termination Check
- 3- IP Test Certificate for enclosure & terminal box
- 4- EX Certificate
- 5- Protection Device Operation Test
- 6- Type test certificate's review
- 7- No-load test
- 8- Locked-rotor test

Vendor DYPNF TPI / Client

1-	H	H	W
2-	H	H	W
3-	H	H	W
4-	H	H	W
5-	H	RA	W
6-	H	RA	W
7-	H	W	W
8-	H	W	W
9-	H	W	W
10-	H	W	W
11-	H	W	W
1-	H	H	W / RA
2-	H	H	W / RA
3-	H	RA	W / RA
4-	H	RA	W / RA
5-	H	W	W / RA
6-	H	W	W / RA
7-	H	W	W / RA
8-	H	W	W / RA



INSPECTION & TEST PLAN (ITP) INSTRUMENTATION AND VALVES

TPA

Airpack 23-Dec-2025: Confirmed

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser		
							Code	Date	Code	Date	Code	Date	
E. Pressure/Temperature Gauges													
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.1 / 8.2	EN 10204	3.1 Material certificate	Q		R		R		
2.	Calibration	Certificate check	100%	E.P.M. 8.1 / 8.2	EN 10204	Calibration certificate	Q		R		R		
F. Pressure/Temperature Transmitter													
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 10204	3.1 Material certificate	Q		R		R		
2.	Calibration	Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 10204	Calibration certificate	Q		R		R		
3.	ATEX	Certificate check Label check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 60079	Ex certificate	Q		R		R		
4.	SIL	Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	IEC 62061	SIL Certificate	Q		R		R		
5.	Ingress Protection	Certificate or declaration check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN / IEC 60529	IP 65 Certificate	Q		R		R		

3.1

Airpack 23-Dec-2025: Confirmed

G. Hand Valves and Strainers														
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.12	EN 10204	3.1	Airpack 23-Dec-2025: Confirmed			R		RA		
2.	Painting	Certificate check Paint tickness check	Random	E.P.M. 14.2	Painting procedure	Painting report	Q			R		Airpack 23-Dec-2025: Confirmed		
H. Check Valves														
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.13	EN 10204	3.1	Airpack 23-Dec-2025: Confirmed			R		RA		
3.	Painting	Certificate check Paint thickness check	Random	E.P.M. 8.13	Painting procedure	Painting report	Q			R		Airpack 23-Dec-2025: Confirmed		
I. Solenoid Valves														
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.14	EN 10204	3.1	Airpack 23-Dec-2025: Confirmed			R		RA		
2.	Calibration	Certificate check	100%	E.P.M. 8.14	EN 10204		Calibration certificate	Q		R		Airpack 23-Dec-2025: Confirmed		
3.	ATEX	Certificate check Label check	100%	E.P.M. 8.14	EN 60079		Ex certificate	Q		R				

J. Pressure Safety Valves												
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.5	EN 10204	3.1	3.1 Material certificate	Q		R		RA
2.	Calibration	Certificate check	100%	E.P.M. 8.5	API Std 526		Certificate			R		Airpack 23-Dec-2025: Confirmed
3.	Leakage Test	Certificate check	100%	E.P.M. 8.5	API Std 527		Hydrostatic Test Certificate	Q		R		Airpack 23-Dec-2025: Confirmed
4.	Hydrostatic Test	Certificate check	100%	E.P.M. 8.5	ASME UV STAMP div.1		Hydrostatic Test Certificate UV Stamp	Q		R		
5.	Painting	Certificate check Paint thickness check	Random	E.P.M. 8.13	Painting procedure		Painting report	Q		R		



INSPECTION & TEST PLAN (ITP) ELECTRIC PANEL

TPA

Airpack 23-Dec-2025: Confirmed

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser		
							Code	Date	Code	Date	Code	Date	
K.	Junction Box												
1.	Dimensions	Visual check	100%	E.P.M. 9.1.1	Panel Layout Drawing	Panel Layout Drawing as built	Q		R				
2.	ATEX	Certificate check	100%	E.P.M. 9.1.1	EN 10204	3.1 Airpack 23-Dec-2025: Confirmed			R				
3.	Ingress Protection	Certificate check	100%	E.P.M. 9.1.1	EN / IEC 60529	IP 65 Certificate	Q		R				

W

Airpack 23-Dec-2025: Confirmed (W activity during FAT at Airpack facilities)



INSPECTION & TEST PLAN (ITP) FACTORY ACCEPTANCE TEST

TPA
Airpack 23-Dec-2025: Confirmed

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation				REMARKS		
							Airpack		Customer			Enduser	
							Code	Date	Code	Date		Code	Date
L. Manufacturing Data Book													
1.	Content	Content check	100%	Index Manufacturing Data Book	Inspection Test Plan	Manufacturing Data Book	Q		R		RA Airpack 23-Dec-2025: Confirmed		
M. Test Instruments													
1.	Calibration	Certificate check	100%	-	-	Calibration certificate	Q		W	R			
N. Mechanical checks													
1.	Quality	Visual check	100%	General Arrangement Drawing P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q			R			
2.	P&ID Review	Visual check	100%	P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q			R			
3.	Dimensions	Visual check Measurement check	100%	General Arrangement Drawing	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q			R			
4.	Painting	Visual check	Random	Painting procedure	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q			R			
5.	Junction boxes	Visual check	100%	Wiring diagram Panel lay-out	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q			R			
6.	Instruments	Visual check	100%	Wiring diagram P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q			R			

W

Airpack 23-Dec-2025: Confirmed
(during FAT)



INSPECTION & TEST PLAN (ITP) PACKING

TPA

Airpack 23-Dec-2025: Confirmed

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser		
							Code	Date	Code	Date	Code	Date	
Q. Punch List													
1.	Punch items	Close out check	100%	-	-	Signed Punch List	W		W		R		
P. Packing and Marking													
1	Quantity	Quantity check	100%	-	Packing and Preservation Procedure Commissioning and Start-up Spare Part List	Signed Packing List	Q		W		R		
2	Packing	Visual check	100%	-	Packing and Preservation Procedure	Signed Packing List	Q						Airpack 23-Dec-2025: Confirmed
3	Marking	Visual check	100%	-	Packing and Preservation Procedure	Signed Packing List	Q				R		
Q. Release of the Package													
1.	Inspection Release Note	-	-	-	Signed ITP	Signed Inspection Release Note	Q		H		H		Airpack 23-Dec-2025: Confirmed