ASPC Project

END CUSTOMER	:	**Arya Sasol Polymer Company**
CONTRACTOR	:	**DYPNF Co., Ltd.**
VENDOR NAME	:	**Airpack Netherlands BV**
EQUIPMENT DESCRIPTION	:	**Screw Compressor & Roots Blower Package**
PURCHASE ORDER NUMBER	:	**PO-PC2312-08**

Customer Document Number : 3944-VD-0171-DYP-RE-400-DSH-0019

Airpack Document Number : 23383-11B

Document Title : Compressor data sheets

Review Code and Status			Contractor Initials/Signature	Date signed
☐	**Code 1**	**REJECTED** - Vendor to revise and Resubmit. Work cannot proceed		
☐	**Code 2**	Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
☐	**Code 3**	No Comments - Work may proceed.		
☐	**Code 4**	Information only - Review not required.		

Rev. No.	Description	Date	Prepared by	Checked by	Approved by
03	Issued for Approval	08-08-2025	SC	KP	JJ
02	Issued for Approval	04-07-2025	SC	KP	JJ
01	Issued for Approval	15-05-2025	SC	KP	JJ
00	Issued for Approval	18-03-2025	SC	KP	JJ

	Airpack Netherlands		**300 KT polyethylene plant project (ASPC)**			DYPNF 디와이피엔에프(주)				
	DATE: 08/08/2025			**DOC NO.:** 23383-11B COMPRESSOR DATA SHEET				**REV. 02**	**PAGE:** 2 of 6	
1	VENDOR (COMPRESSOR) :	**Airpack Netherlands B.V.**		REFERENCE :	**23383-COM**					
2	TYPE / MODEL :	**Aerzen VM100**		SERIAL NO. :	**T-2025-00804/00805**					
3	SERVICE :	**Nitrogen compressor**		OPERATION :	**Continuous**					
4	QUANTITY :	**2 (1+1)**		ITEM NO. :	**44C-40001A/B**					
5	**INLET CONDITIONS**			**PACKAGE SCOPE OF SUPPLY**						
6	GAS HANDLED :	**Nitrogen**		COMPRESSOR TYPE :	**Oil free screw**					
7	**INLET CONDITIONS**			DRIVER TYPE :	**MV motor**					
8	PRESSURE	bar(g)	**0.05**	COUPLING / GUARD :	**Flexible / Non-sparking**					
9	TEMPERATURE	°C	**48**	RCU AND SAFETY SWITCHES FOR MOTORS:	**N/A**					
10	REL. HUMIDITY	%	**0**	INTAKE FILTER / SILENCER:	**By others / Included**					
11	OPERATING DENSITY	kg/m3	**1.1**	INTERCOOLING:	**N/A**					
12	MOLECULAR MASS	g/mol	**28**	AFTERCOOLER:	**N/A**					
13	Cp/Cv		**1.4**	LUBE-OIL COOLER:	**Air-cooled**					
14	Z		**1**	LUBE-OIL FILTER:	**Included**					
16	VISCOSITY	PaS	**1.92*10^-5**	AUTO CONDENSATE TRAP:	**N/A**					
17	**DISCHARGE CONDITIONS**			AIR DRYER:	**N/A**					
18	PRESSURE	bar(g)	**1.89**	NITROGEN GENERATOR:	**N/A**					
19	FLOW RATE	Nm³/h	**6416**	BLOW-OFF SILENCER:	**N/A**					
20	TEMPERATURE	°C	**189**	CONTROL PANEL:	**LPS and Junction box**					
21	CONNECTION		**ANSI 10" 150# RF**	VIBRATION MONITOR:	**N/A**					
22	**COMP. PERFORMANCE**			INTERCONNECTING PIPEWORK & VALVES :	**N/A**					
23	SPEED	rpm	**6994**	ACOUSTIC ENCLOSURE:	**Included**					
24	ABSORBED POWER	kW	**356**	FOUNDATION BOLTS:	**Included**					
25	TYPE		**Oil free screw**	RECEIVER VESSELS:	**N/A**					
26	DESIGN TEMP/PRESS	°C/bar(g)	**-10-280 / 5**	LIGHTING:	**N/A**					
27	COMPRESSION RATIO		**2.73**	BASEPLATE	**Included**					
28	VOL. EFFICIENCY	%	**99.8**	FIRST OIL FILLING	**Included**					
	NOISE @ 1M	dBA	**80**							
29	**DRIVER PERFORMANCE 44C-40001A/B-M1**			**UTILITY SUPPLIES**						
30	OPERATING SPEED	rpm	**2988**	ELECTRICAL SUPPLY :						
31	RATING	kW	**450**	V	**6000**	PH	**3**	Hz	**50**	
32	MANUFACTURER		**WEG**	V	**400**	PH	**3**	Hz	**50**	
33	NO. OF POLES		**2**	V	**230**	PH	**1**	Hz	**50**	
34	DRIVE		**DIRECT**	COOLING MEDIUM :			**AIR**			
35			**NOTE 1**	TEMPERATURE:			**AMBIENT**			
36	COOLING METHOD		**TEFC**	PRESSURE:			**AMBIENT**			
37	**SITE CONDITIONS**			**WEIGHTS AND DIMENSIONS**						
38	ELEVATION	m	**<1000**	COMPRESSOR		kg	3716			
39	AMB. TEMPERATURE	°C	**5-48**	DRIVER		kg	4100			
40	AMB. PRESSURE	bar(g)	**0**	MISCELLANEOUS		kg	5380			
41	REL. HUMIDITY	%	**65-100**	TOTAL		kg	+/- 13200			
42	AREA CLASSIFICATION		**Zone 2 group IIB, T3**							
43	NOISE LIMITATION	dBA	**85**	SIZE		mm	L X W X H	5700 X 2903 X 2080		
44										
45										
46				**BEARING HOUSING**						
47	**CASING**			TYPE	**ANTI-FRICTION**					
48	MATERIAL		**EN-GJL-250 / ASTM A48**	BALL / ROLLER	**ROLLER**					
49	COOLING		**AIR-COOLED**							
50	DRIVE DIRECTION		**CW**	**LUBRICATION**						
51				LUBE SYSTEM :			**FORCED LUBRICATION, AIR COOLED**			
52				LUBE OIL PUMP DRIVE :		kW	**SHAFT DRIVEN**			
53	**ROTORS**			SYSTEM OIL CAPACITY		L	**70**			
54	NO. OF LOBES MALE		**4**	LUBE OIL COOLER			**AIR-COOLED**			
55	NO. OF LOBES FEMALE		**6**	LUBE OIL FILTER			**INCLUDED**			
56	MATERIAL		**C45N / AISI 1045**	THERMOSTATIC VALVE			**YES**			
57										
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**						
59	MATERIAL		**16 Mn Cr5 / ASTM A29**	Compressor: Mfr. Std.						
60	TYPE		**HELICAL, TEETH HARDENED**							
61	**SEALING**			**INSTRUMENTATION**						
62	SHAFT SEALING TYPE		**LABYRINTH**	FUNCTION				TYPE(S)		
63				COMPRESSOR INLET PRESSURE				GAUGE & TRANSMITTER		
65	**SKID / COMPRESSOR CONNECTIONS (ASME B16.5)**			COMPRESSOR DISCHARGE TEMPERATURE				TRANSMITTER		
66	NOZZLE	SIZE	RATING / FACING / POSITION	COMPRESSOR DISCHARGE PRESSURE				GAUGE & TRANSMITTER		
67	NITROGEN INLET	**12"**	**150# / RF / TOP**	COMPRESSOR OIL TEMPERATURE				TRANSMITTER		
68	NITROGEN DISCHARGE	**10"**	**150# / RF / TOP**	COMPRESSOR OIL PRESSURE				GAUGE & TRANSMITTER		
69	PSV OUTLET	**6"**	**150# / RF / TOP**	COMPRESSOR ENCLOSURE TEMPERATURE				TRANSMITTER		
70				COMPRESSOR OIL LEVEL				SIGHT GLASS		
70				MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)				RTD		
71	**NOTES : 1: FOR MORE INFORMATION ABOUT THE DRIVER REFER TO MOTOR DATASHEET**									
72										

Airpack Netherlands	300 KT polyethylene plant project (ASPC)	DYPNF 디와이피엔에프(주)	
DATE: 08/08/2025	**DOC NO.:** 23383-11B COMPRESSOR DATA SHEET	**REV. 02**	**PAGE:** 3 of 6

1	VENDOR (COMPRESSOR) :	**Airpack Netherlands B.V.**		REFERENCE :	**23383-COM**				
2	TYPE / MODEL :	**Aerzen VML95**		SERIAL NO. :	**T-2025-00806/00807**				
3	SERVICE :	**Air compressor**		OPERATION :	**Continuous**				
4	QUANTITY :	**2 (1+1)**		ITEM NO. :	**44C-80001A/B**				
5	**INLET CONDITIONS**			**PACKAGE SCOPE OF SUPPLY**					
6	GAS HANDLED :	**Air**		COMPRESSOR TYPE :	**Oil free screw**				
7	**INLET CONDITIONS**			DRIVER TYPE :	**MV motor**				
8	PRESSURE	bar(g)	**0**	COUPLING / GUARD :	**Flexible / Non-sparking**				
9	TEMPERATURE	°C	**5-48**	RCU AND SAFETY SWITCHES FOR MOTORS:	**N/A**				
10	REL. HUMIDITY	%	**65-100**	INTAKE FILTER / SILENCER:	**Included**				
11	OPERATING DENSITY	kg/m3	**1.1**	INTERCOOLING:	**N/A**				
12	MOLECULAR MASS	g/mol	**28.97**	AFTERCOOLER:	**N/A**				
13	Cp/Cv		**1.4**	LUBE-OIL COOLER:	**Air-cooled**				
14	Z		**1**	LUBE-OIL FILTER:	**Included**				
	VISCOSITY	PaS	**1.97*10^-5**						
16	INLET FILTER DIFF. PRESS.	Mbar	**10**	AUTO CONDENSATE TRAP:	**N/A**				
17	**DISCHARGE CONDITIONS**			AIR DRYER:	**N/A**				
18	PRESSURE	bar(g)	**1.46**	NITROGEN GENERATOR:	**N/A**				
19	FLOW RATE	Nm³/h	**4247**	BLOW-OFF SILENCER:	**N/A**				
20	TEMPERATURE	°C	**167**	CONTROL PANEL:	**LPS and Junction box**				
21	CONNECTION		**ANSI 10" 150# RF**	VIBRATION MONITOR:	**N/A**				
22	**COMP. PERFORMANCE**			INTERCONNECTING PIPEWORK & VALVES :	**N/A**				
23	SPEED	rpm	**6253**	ACOUSTIC ENCLOSURE:	**Included**				
24	ABSORBED POWER	kW	**195**	FOUNDATION BOLTS:	**Included**				
25	TYPE		**Oil free screw**	RECEIVER VESSELS:	**N/A**				
26	DESIGN TEMP/PRESS	°C/bar(g)	**-10-230 / 3.2**	LIGHTING:	**N/A**				
27	COMPRESSION RATIO		**2.44**	BASEPLATE	**Included**				
28	VOL. EFFICIENCY	%	**96.6**	FIRST OIL FILLING	**Included**				
	NOISE @ 1M	dBA	**78**						
29	**DRIVER PERFORMANCE 44C-80001A/B-M1**			**UTILITY SUPPLIES**					
30	OPERATING SPEED	rpm	**2980**	ELECTRICAL SUPPLY :					
31	RATING	kW	**250**	V	**6000**	PH	**3**	Hz	**50**
32	MANUFACTURER		**WEG**	V	**400**	PH	**3**	Hz	**50**
33	NO. OF POLES		**2**	V	**230**	PH	**1**	Hz	**50**
34	DRIVE		**DIRECT**	COOLING MEDIUM :			**AIR**		
35			**NOTE 1**	TEMPERATURE:			**AMBIENT**		
36	COOLING METHOD		**TEFC**	PRESSURE:			**AMBIENT**		
37	**SITE CONDITIONS**			**WEIGHTS AND DIMENSIONS**					
38	ELEVATION	m	**<1000**	COMPRESSOR		kg	2568		
39	AMB. TEMPERATURE	°C	**5-48**	DRIVER		kg	2141		
40	AMB. PRESSURE	bar(g)	**0**	MISCELLANEOUS		kg	4141		
41	REL. HUMIDITY	%	**65-100**	TOTAL		kg	+/- 8850		
42	AREA CLASSIFICATION		**Safe area**						
43	NOISE LIMITATION	dBA	**85**	SIZE		mm	L X W X H	5500 X 1700 X 1880	
44									
45									
46				**BEARING HOUSING**					
47	**CASING**			TYPE	**ANTI-FRICTION**				
48	MATERIAL		**EN-GJL-250 / ASTM A48**	BALL / ROLLER	**ROLLER**				
49	COOLING		**AIR-COOLED**						
50	DRIVE DIRECTION		**CW**	**LUBRICATION**					
51				LUBE SYSTEM :			**FORCED LUBRICATION, AIR COOLED**		
52				LUBE OIL PUMP DRIVE :		kW	**SHAFT DRIVEN**		
53	**ROTORS**			SYSTEM OIL CAPACITY		L	**30**		
54	NO. OF LOBES MALE		**3**	LUBE OIL COOLER			**AIR-COOLED**		
55	NO. OF LOBES FEMALE		**4**	LUBE OIL FILTER			**INCLUDED**		
56	MATERIAL		**C45N / AISI 1045**	THERMOSTATIC VALVE			**YES**		
57									
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**					
59	MATERIAL		**16 Mn Cr5 / ASTM A29**	Compressor: Mfr. Std.					
60	TYPE		**HELICAL, TEETH HARDENED**						
61	**SEALING**			**INSTRUMENTATION**					
62	SHAFT SEALING TYPE		**LABYRINTH**	FUNCTION			TYPE(S)		
63				COMPRESSOR INLET PRESSURE			GAUGE & TRANSMITTER		
65	**SKID / COMPRESSOR CONNECTIONS (ASME B16.5)**			COMPRESSOR DISCHARGE TEMPERATURE			TRANSMITTER		
66	NOZZLE	SIZE	RATING / FACING / POSITION	COMPRESSOR DISCHARGE PRESSURE			GAUGE & TRANSMITTER		
67				COMPRESSOR OIL TEMPERATURE			TRANSMITTER		
68	AIR DISCHARGE	**10"**	**150# / RF / TOP**	COMPRESSOR OIL PRESSURE			GAUGE & TRANSMITTER		
69				COMPRESSOR INLET FILTER DIFF.PRESSURE			TRANSMITTER		
70				COMPRESSOR OIL LEVEL			SIGHT GLASS		
70				MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)			RTD		
71	**NOTES : 1: FOR MORE INFORMATION ABOUT THE DRIVER REFER TO MOTOR DATASHEET**								
72									

300 KT polyethylene plant project (ASPC)

DATE: 08/08/2025	DOC NO.: 23383-11B COMPRESSOR DATA SHEET	REV. 02	PAGE: 4 of 6

1	VENDOR (COMPRESSOR) :	**Airpack Netherlands B.V.**		REFERENCE :	**23383-COM**				
2	TYPE / MODEL :	**Aerzen GM100S**		SERIAL NO. :	**T-2025-00808/00809**				
3	SERVICE :	**Roots Blower**		OPERATION :	**Semi-Continuous**				
4	QUANTITY :	**2 (1+1)**		ITEM NO. :	**44C-80002A/B**				
5	**INLET CONDITIONS**			**PACKAGE SCOPE OF SUPPLY**					
6	GAS HANDLED :	**Air**		COMPRESSOR TYPE :	**Positive Displacement**				
7	**INLET CONDITIONS**			DRIVER TYPE :	**MV motor**				
8	PRESSURE	bar(g)	**0**	COUPLING / GUARD :	**V-Belt / V-Belt guard**				
9	TEMPERATURE	°C	**5-48**	RCU AND SAFETY SWITCHES FOR MOTORS:	**N/A**				
10	REL. HUMIDITY	%	**65-100**	INTAKE FILTER / SILENCER:	**Included**				
11	OPERATING DENSITY	kg/m3	**1.1**	INTERCOOLING:	**N/A**				
12	MOLECULAR MASS	g/mol	**28.97**	AFTERCOOLER:	**N/A**				
13	Cp/Cv		**1.4**	LUBE-OIL COOLER:	**Air-cooled**				
14	Z		**1**	LUBE-OIL FILTER:	**Included**				
	VISCOSITY	PaS	**1.97*10^-5**						
16	INLET FILTER DIFF. PRESS.	Mbar	**10**	AUTO CONDENSATE TRAP:	**N/A**				
17	**DISCHARGE CONDITIONS**			AIR DRYER:	**N/A**				
18	PRESSURE	bar(g)	**0.97**	NITROGEN GENERATOR:	**N/A**				
19	FLOW RATE	Nm³/h	**4266**	BLOW-OFF SILENCER:	**N/A**				
20	TEMPERATURE	°C	**154**	CONTROL PANEL:	**LPS and Junction box**				
21	CONNECTION		**ANSI 10" 150# RF**	VIBRATION MONITOR:	**N/A**				
22	**COMP. PERFORMANCE**			INTERCONNECTING PIPEWORK & VALVES :	**N/A**				
23	SPEED	rpm	**2244**	ACOUSTIC ENCLOSURE:	**Included**				
24	ABSORBED POWER	kW	**193**	FOUNDATION BOLTS:	**Included**				
25	TYPE		**Positive Displacement**	RECEIVER VESSELS:	**N/A**				
26	DESIGN TEMP/PRESS	°C/bar(g)	**-10-155 / 2.1**	LIGHTING:	**N/A**				
27	COMPRESSION RATIO		**1.95**	BASEPLATE	**Included**				
28	VOL. EFFICIENCY	%	**96.7**	FIRST OIL FILLING	**Included**				
	NOISE @ 1M	dBA	**81**						
29	**DRIVER PERFORMANCE 44C-80002A/B-M1**			**UTILITY SUPPLIES**					
30	OPERATING SPEED	rpm	**1488**	ELECTRICAL SUPPLY :					
31	RATING	kW	**250**	V	**6000**	PH	**3**	Hz	**50**
32	MANUFACTURER		**WEG**	V	**400**	PH	**3**	Hz	**50**
33	NO. OF POLES		**4**	V	**230**	PH	**1**	Hz	**50**
34	DRIVE		**V-BELT**	COOLING MEDIUM :			**AIR**		
35			**NOTE 1**	TEMPERATURE:			**AMBIENT**		
36	COOLING METHOD		**TEFC**	PRESSURE:			**AMBIENT**		
37	**SITE CONDITIONS**			**WEIGHTS AND DIMENSIONS**					
38	ELEVATION	m	**<1000**	BLOWER		kg	1008		
39	AMB. TEMPERATURE	°C	**5-48**	DRIVER		kg	2235		
40	AMB. PRESSURE	bar(g)	**0**	MISCELLANEOUS		kg	497		
41	REL. HUMIDITY	%	**65-100**	TOTAL		kg	+/- 3740		
42	AREA CLASSIFICATION		**Safe area**						
43	NOISE LIMITATION	dBA	**85**	SIZE		mm	L X W X H	3000 X 2350 X 2600	
44									
45									
46				**BEARING HOUSING**					
47	**CASING**			TYPE	**ANTI-FRICTION**				
48	MATERIAL		**EN-GJL-250 / ASTM A48**	BALL / ROLLER	**ROLLER**				
49	COOLING		**AIR-COOLED**						
50	DRIVE DIRECTION		**CW**	**LUBRICATION**					
51				LUBE SYSTEM :			**OIL SPLASH LUBRICATION**		
52				LUBE OIL PUMP DRIVE :		kW	**N/A**		
53	**ROTORS/SHAFT**			SYSTEM OIL CAPACITY		L	**12.5**		
54	NO. OF LOBES MALE		**3**	LUBE OIL COOLER			**AIR-COOLED**		
55	NO. OF LOBES FEMALE		**3**	LUBE OIL FILTER			**INCLUDED**		
56	MATERIAL		**EN-GJS-500-7 / ASTM A536**	THERMOSTATIC VALVE			**N/A**		
57									
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**					
59	MATERIAL		**16 Mn Cr5 / ASTM A29**	Blower: Mfr. Std.					
60	TYPE		**HELICAL, TEETH HARDENED**						
61	**SEALING**			**INSTRUMENTATION**					
62	SHAFT SEALING TYPE		**RADIAL SEAL RING**	FUNCTION				TYPE(S)	
63				BLOWER INLET PRESSURE				GAUGE & TRANSMITTER	
65	**SKID / COMPRESSOR CONNECTIONS (ASME B16.5)**			BLOWER INLET FILTER DIFF. PRESSURE				TRANSMITTER	
66	NOZZLE	SIZE	RATING / FACING / POSITION	BLOWER DISCHARGE TEMPERATURE				TRANSMITTER	
67				BLOWER DISCHARGE PRESSURE				GAUGE & TRANSMITTER	
68	AIR DISCHARGE	**10"**	**150# / RF / SIDE**	MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)				RTD	
69									
70									
70									
71	**NOTES : 1: FOR MORE INFORMATION ABOUT THE DRIVER REFER TO MOTOR DATASHEET**								
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300 KT polyethylene plant project (ASPC)

DATE: 08/08/2025	DOC NO.: 23383-11B COMPRESSOR DATA SHEET	REV. 02	PAGE: 5 of 6

1	VENDOR (COMPRESSOR) :	**Airpack Netherlands B.V.**		REFERENCE :	**23383-COM**			
2	TYPE / MODEL :	**Aerzen VM140**		SERIAL NO. :	**T-2025-00810/00811**			
3	SERVICE :	**Air compressor**		OPERATION :	**Continuous**			
4	QUANTITY :	**2 (1+1)**		ITEM NO. :	**44C-80004A/B**			
5	**INLET CONDITIONS**			**PACKAGE SCOPE OF SUPPLY**				
6	GAS HANDLED :	**Air**		COMPRESSOR TYPE :	**Oil free screw**			
7	**INLET CONDITIONS**			DRIVER TYPE :	**MV motor**			
8	PRESSURE	bar(g)	**0**	COUPLING / GUARD :	**Flexible / Non-sparking**			
9	TEMPERATURE	°C	**5-48**	RCU AND SAFETY SWITCHES FOR MOTORS:	**N/A**			
10	REL. HUMIDITY	%	**65-100**	INTAKE FILTER / SILENCER:	**Included**			
11	OPERATING DENSITY	kg/m3	**1.1**	INTERCOOLING:	**N/A**			
12	MOLECULAR MASS	g/mol	**28.97**	AFTERCOOLER:	**N/A**			
13	Cp/Cv		**1.4**	LUBE-OIL COOLER:	**Air-cooled**			
14	Z		**1**	LUBE-OIL FILTER:	**Included**			
	VISCOSITY	PaS	**1.97*10^-5**					
16	INLET FILTER DIFF. PRESS.	Mbar	**10**	AUTO CONDENSATE TRAP:	**N/A**			
17	**DISCHARGE CONDITIONS**			AIR DRYER:	**N/A**			
18	PRESSURE	bar(g)	**2.2**	NITROGEN GENERATOR:	**N/A**			
19	FLOW RATE	Nm³/h	**7339**	BLOW-OFF SILENCER:	**N/A**			
20	TEMPERATURE	°C	**205**	CONTROL PANEL:	**LPS and Junction box**			
21	CONNECTION		**ANSI 10" 150# RF**	VIBRATION MONITOR:	**N/A**			
22	**COMP. PERFORMANCE**			INTERCONNECTING PIPEWORK & VALVES :	**N/A**			
23	SPEED	rpm	**5860**	ACOUSTIC ENCLOSURE:	**Included**			
24	ABSORBED POWER	kW	**479**	FOUNDATION BOLTS:	**Included**			
25	TYPE		**Oil free screw**	RECEIVER VESSELS:	**N/A**			
26	DESIGN TEMP/PRESS	°C/bar(g)	**-10-280 / 5**	LIGHTING:	**N/A**			
27	COMPRESSION RATIO		**3.17**	BASEPLATE	**Included**			
28	VOL. EFFICIENCY	%	**96.5**	FIRST OIL FILLING	**Included**			
	NOISE @ 1M	dBA	**85**					
29	**DRIVER PERFORMANCE 44C-80004A/B-M1**			**UTILITY SUPPLIES**				
30	OPERATING SPEED	rpm	**2985**	ELECTRICAL SUPPLY :				
31	RATING	kW	**590**	V **6000**	PH **3**	Hz **50**		
32	MANUFACTURER		**WEG**	V **400**	PH **3**	Hz **50**		
33	NO. OF POLES		**2**	V **230**	PH **1**	Hz **50**		
34	DRIVE		**DIRECT**	COOLING MEDIUM :	**AIR**			
35			**NOTE 1**	TEMPERATURE:	**AMBIENT**			
36	COOLING METHOD		**TEFC**	PRESSURE:	**AMBIENT**			
37	**SITE CONDITIONS**			**WEIGHTS AND DIMENSIONS**				
38	ELEVATION	m	**<1000**	COMPRESSOR	kg	5298		
39	AMB. TEMPERATURE	°C	**5-48**	DRIVER	kg	4002		
40	AMB. PRESSURE	bar(g)	**0**	MISCELLANEOUS	kg	4700		
41	REL. HUMIDITY	%	**65-100**	TOTAL	kg	+/- 14000		
42	AREA CLASSIFICATION		**Safe area**					
43	NOISE LIMITATION	dBA	**85**	SIZE	mm	L X W X H	6000 X 2180 X 3413	
44								
45								
46				**BEARING HOUSING**				
47	**CASING**			TYPE	**ANTI-FRICTION**			
48	MATERIAL		**EN-GJL-250 / ASTM A48**	BALL / ROLLER	**ROLLER**			
49	COOLING		**AIR-COOLED**					
50	DRIVE DIRECTION		**CW**	**LUBRICATION**				
51				LUBE SYSTEM :		**FORCED LUBRICATION, AIR COOLED**		
52				LUBE OIL PUMP DRIVE :	kW	**SHAFT DRIVEN**		
53	**ROTORS**			SYSTEM OIL CAPACITY	L	**65**		
54	NO. OF LOBES MALE		**4**	LUBE OIL COOLER		**AIR-COOLED**		
55	NO. OF LOBES FEMALE		**6**	LUBE OIL FILTER		**INCLUDED**		
56	MATERIAL		**C45N / AISI 1045**	THERMOSTATIC VALVE		**YES**		
57								
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**				
59	MATERIAL		**16 Mn Cr5 / ASTM A29**	Compressor: Mfr. Std.				
60	TYPE		**HELICAL, TEETH HARDENED**					
61	**SEALING**			**INSTRUMENTATION**				
62	SHAFT SEALING TYPE		**LABYRINTH**	FUNCTION		TYPE(S)		
63				COMPRESSOR INLET PRESSURE		GAUGE & TRANSMITTER		
65	**SKID / COMPRESSOR CONNECTIONS (ASME B16.5)**			COMPRESSOR DISCHARGE TEMPERATURE		TRANSMITTER		
66	NOZZLE	SIZE	RATING / FACING / POSITION	COMPRESSOR DISCHARGE PRESSURE		GAUGE & TRANSMITTER		
67				COMPRESSOR OIL TEMPERATURE		TRANSMITTER		
68	AIR DISCHARGE	**10"**	**150# / RF / TOP**	COMPRESSOR OIL PRESSURE		GAUGE & TRANSMITTER		
69				COMPRESSOR INLET FILTER DIFF.PRESSURE		TRANSMITTER		
70				COMPRESSOR OIL LEVEL		SIGHT GLASS		
70				MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)		RTD		
71	**NOTES : 1: FOR MORE INFORMATION ABOUT THE DRIVER REFER TO MOTOR DATASHEET**							
72								

300 KT polyethylene plant project (ASPC)

DATE: 08/08/2025	DOC NO.: 23383-11B COMPRESSOR DATA SHEET	REV. 02	PAGE: 6 of 6

1	VENDOR (COMPRESSOR) :	**Airpack Netherlands B.V.**		REFERENCE :	**23383-COM**			
2	TYPE / MODEL :	**Aerzen VML95**		SERIAL NO. :	**T-2025-00812/00813/00814**			
3	SERVICE :	**Air compressor**		OPERATION :	**Continuous**			
4	QUANTITY :	**3 (2+1)**		ITEM NO. :	**44C-80005A/B/C**			
5	**INLET CONDITIONS**			**PACKAGE SCOPE OF SUPPLY**				
6	GAS HANDLED :	**Air**		COMPRESSOR TYPE :	**Oil free screw**			
7	**INLET CONDITIONS**			DRIVER TYPE :	**MV motor**			
8	PRESSURE	bar(g)	**0**	COUPLING / GUARD :	**Flexible / Non-sparking**			
9	TEMPERATURE	°C	**5-48**	RCU AND SAFETY SWITCHES FOR MOTORS:	**N/A**			
10	REL. HUMIDITY	%	**65-100**	INTAKE FILTER / SILENCER:	**Included**			
11	OPERATING DENSITY	kg/m3	**1.1**	INTERCOOLING:	**N/A**			
12	MOLECULAR MASS	g/mol	**28.97**	AFTERCOOLER:	**N/A**			
13	Cp/Cv		**1.4**	LUBE-OIL COOLER:	**Air-cooled**			
14	Z		**1**	LUBE-OIL FILTER:	**Included**			
	VISCOSITY	PaS	**1.97*10^-5**					
16	INLET FILTER DIFF. PRESS.	Mbar	**10**	AUTO CONDENSATE TRAP:	**N/A**			
17	**DISCHARGE CONDITIONS**			AIR DRYER:	**N/A**			
18	PRESSURE	bar(g)	**1.41**	NITROGEN GENERATOR:	**N/A**			
19	FLOW RATE	Nm³/h	**4226**	BLOW-OFF SILENCER:	**N/A**			
20	TEMPERATURE	°C	**164**	CONTROL PANEL:	**LPS and Junction box**			
21	CONNECTION		**ANSI 10" 150# RF**	VIBRATION MONITOR:	**N/A**			
22	**COMP. PERFORMANCE**			INTERCONNECTING PIPEWORK & VALVES :	**N/A**			
23	SPEED	rpm	**6253**	ACOUSTIC ENCLOSURE:	**Included**			
24	ABSORBED POWER	kW	**189**	FOUNDATION BOLTS:	**Included**			
25	TYPE		**Oil free screw**	RECEIVER VESSELS:	**N/A**			
26	DESIGN TEMP/PRESS	°C/bar(g)	**-10-230 / 3.2**	LIGHTING:	**N/A**			
27	COMPRESSION RATIO		**2.39**	BASEPLATE	**Included**			
28	VOL. EFFICIENCY	%	**96.6**	FIRST OIL FILLING	**Included**			
	NOISE @ 1M	dBA	**78**					
29	**DRIVER PERFORMANCE 44C-80005A/B/C-M1**			**UTILITY SUPPLIES**				
30	OPERATING SPEED	rpm	**2980**	ELECTRICAL SUPPLY :				
31	RATING	kW	**250**	V **6000**	PH **3**	Hz **50**		
32	MANUFACTURER		**WEG**	V **400**	PH **3**	Hz **50**		
33	NO. OF POLES		**2**	V **230**	PH **1**	Hz **50**		
34	DRIVE		**DIRECT**	COOLING MEDIUM :	**AIR**			
35			**NOTE 1**	TEMPERATURE:	**AMBIENT**			
36	COOLING METHOD		**TEFC**	PRESSURE:	**AMBIENT**			
37	**SITE CONDITIONS**			**WEIGHTS AND DIMENSIONS**				
38	ELEVATION	m	**<1000**	COMPRESSOR	kg	2568		
39	AMB. TEMPERATURE	°C	**5-48**	DRIVER	kg	2141		
40	AMB. PRESSURE	bar(g)	**0**	MISCELLANEOUS	kg	4141		
41	REL. HUMIDITY	%	**65-100**	TOTAL	kg	+/- 8850		
42	AREA CLASSIFICATION		**Safe area**					
43	NOISE LIMITATION	dBA	**85**	SIZE	mm	L X W X H	5500 X 1700 X 1880	
44								
45								
46				**BEARING HOUSING**				
47	**CASING**			TYPE	**ANTI-FRICTION**			
48	MATERIAL		**EN-GJL-250 / ASTM A48**	BALL / ROLLER	**ROLLER**			
49	COOLING		**AIR-COOLED**					
50	DRIVE DIRECTION		**CW**	**LUBRICATION**				
51				LUBE SYSTEM :		**FORCED LUBRICATION, AIR COOLED**		
52				LUBE OIL PUMP DRIVE :	kW	**SHAFT DRIVEN**		
53	**ROTORS**			SYSTEM OIL CAPACITY	L	**30**		
54	NO. OF LOBES MALE		**3**	LUBE OIL COOLER		**AIR-COOLED**		
55	NO. OF LOBES FEMALE		**4**	LUBE OIL FILTER		**INCLUDED**		
56	MATERIAL		**C45N / AISI 1045**	THERMOSTATIC VALVE		**YES**		
57								
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**				
59	MATERIAL		**16 Mn Cr5 / ASTM A29**	Compressor: Mfr. Std.				
60	TYPE		**HELICAL, TEETH HARDENED**					
61	**SEALING**			**INSTRUMENTATION**				
62	SHAFT SEALING TYPE		**LABYRINTH**	FUNCTION		TYPE(S)		
63	CONVEYING CHAMBER SEAL TYPE		**PISTON RING LABYRINTH**	COMPRESSOR INLET PRESSURE		GAUGE & TRANSMITTER		
65	**SKID / COMPRESSOR CONNECTIONS (ASME B16.5)**			COMPRESSOR DISCHARGE TEMPERATURE		TRANSMITTER		
66	NOZZLE / SIZE / RATING / FACING / POSITION			COMPRESSOR DISCHARGE PRESSURE		GAUGE & TRANSMITTER		
67				COMPRESSOR OIL TEMPERATURE		TRANSMITTER		
68	AIR DISCHARGE / **10"** / **150#** / **RF** / **TOP**			COMPRESSOR OIL PRESSURE		GAUGE & TRANSMITTER		
69				COMPRESSOR INLET FILTER DIFF.PRESSURE		TRANSMITTER		
70				COMPRESSOR OIL LEVEL		SIGHT GLASS		
70				MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)		RTD		
71	**NOTES : 1: FOR MORE INFORMATION ABOUT THE DRIVER REFER TO MOTOR DATASHEET**							
72								

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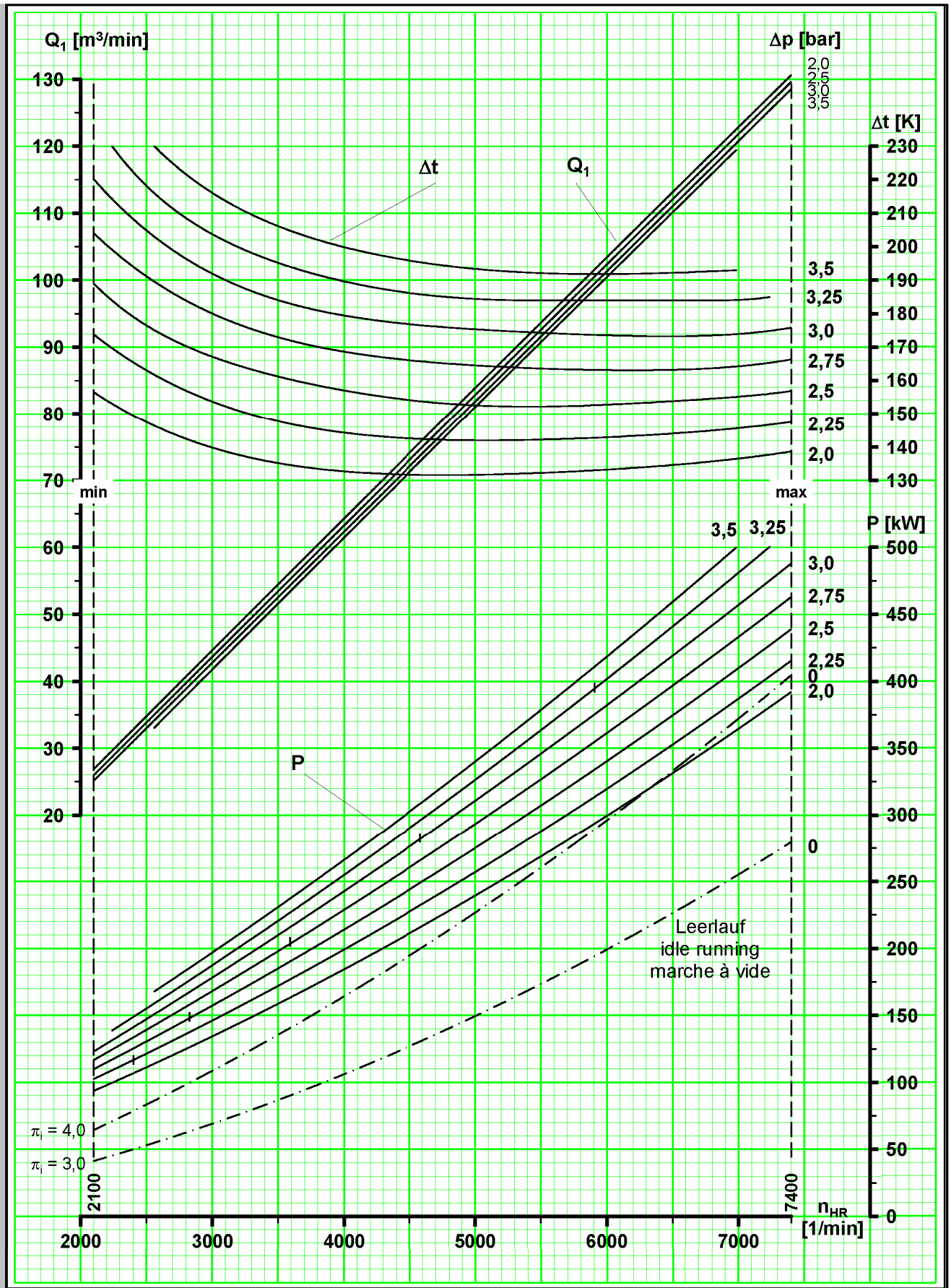

Q_1 : Ansaugvolumenstrom (Luft) bei p_1 = 1,0 bar und t_1 = 20°C	intake volume flow (air) at p_1 = 1.0 bar and t_1 = 20°C	débit aspiré (air) pour p_1 = 1,0 bar et t_1 = 20°C
n_{HR} : Hauptrotordrehzahl	main rotor speed	vitesse du rotor principal
n_V : Antriebswellendrehzahl	drive shaft speed	vitesse de l'arbre d'entraînement
P : Leistungsbedarf an der Kupplung	power required at the coupling	puissance absorbée à l'accouplement
Δt : Temperaturerhöhung	temperature rise	élévation de température
Δp : Druckerhöhung	pressure difference	pression différentielle
π_i : Eingebautes Druckverhältnis	built-in compression ratio	rapport de compression interne

Leistungsdiagramm - **Überdruck** - für Schraubenverdichterstufe
performance diagram - **overpressure** - for screw compressor stage
courbes de fonctionnement - **fonctionnement en pression** - pour étage de compresseur à vis

VM 100

$n_V / n_{HR} = i$	TRD/Evers 11/2017	V2-882 4000661586

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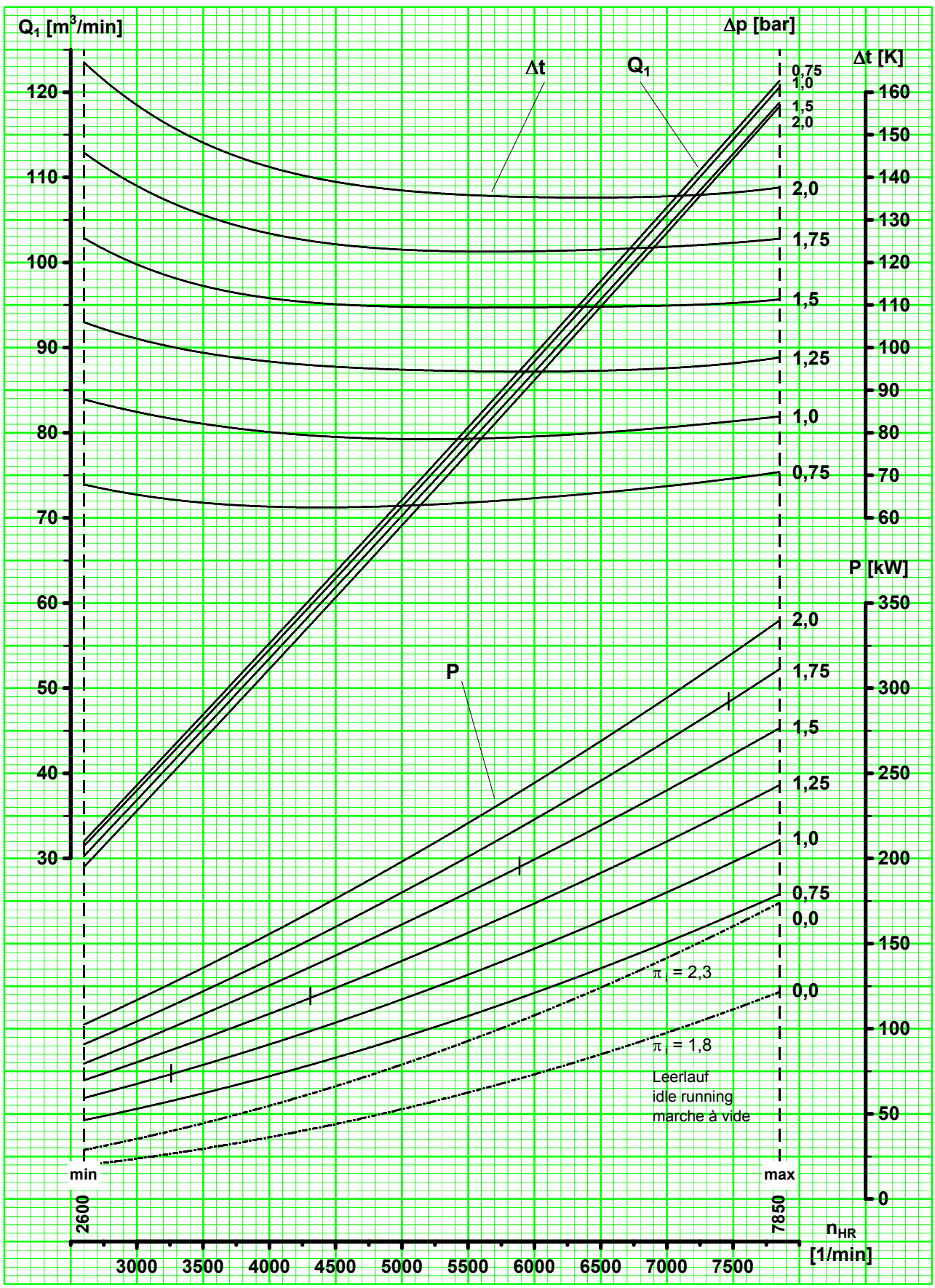

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Leistungsdiagramm - **Überdruck** - für Schraubenverdichterstufe
performance diagram - **overpressure** - for screw compressor stage
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VML 95

n_V / n_{HR} = i	10/2007	**V2 - 880 - a**

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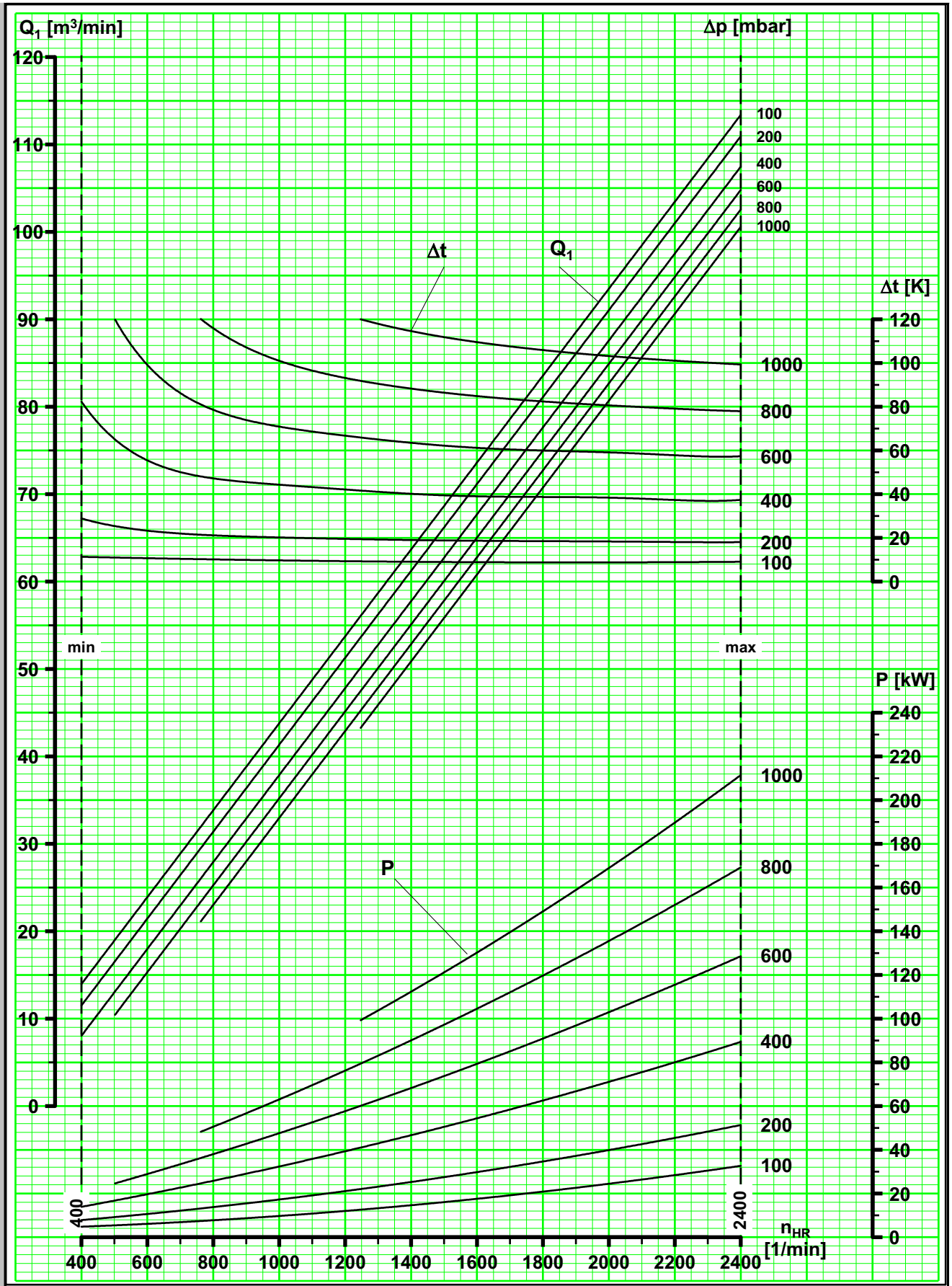

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Leistungsdiagramm - Überdruck - für Drehkolbengebläsestufe
performance diagram - overpressure - for stage of rotary piston blower
courbes de fonctionnement - fonctionnement en pression - pour étage de surpresseur à pistons rotatifs

GM 100 S

nV / nHR = 1	03/2020 TRD / Evers	4000556899

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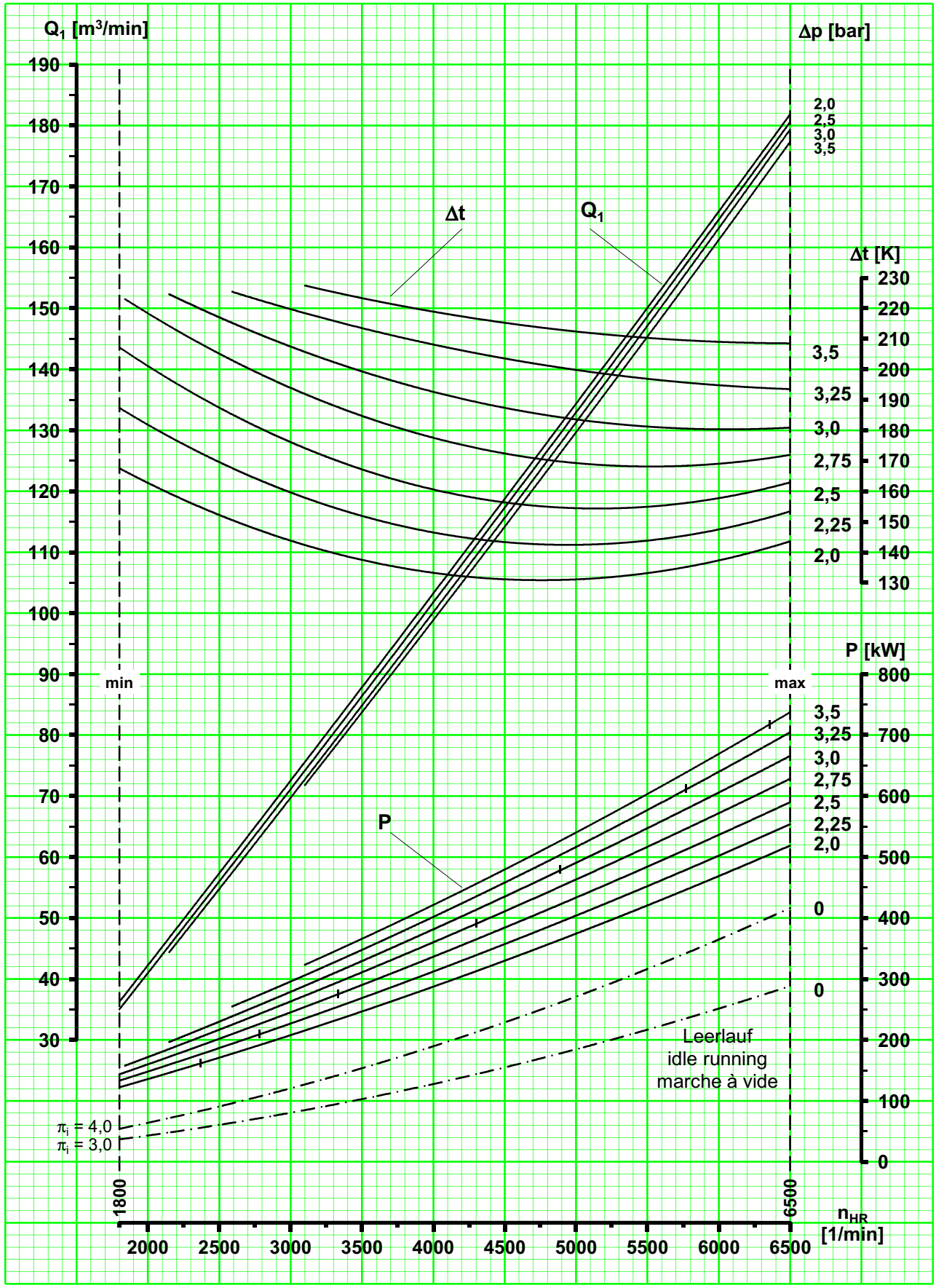

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π_i : Eingebautes Druckverhältnis	built-in compression ratio	rapport de compression interne

Leistungsdiagramm - **Überdruck** - für Schraubenverdichterstufe
performance diagram - **overpressure** - for screw compressor stage
courbes de fonctionnement - **fonctionnement en pression** - pour étage de compresseur à vis

VM 140

$n_V / n_{HR} = i$	06/2015	V2 - 886 SAP 4000123754

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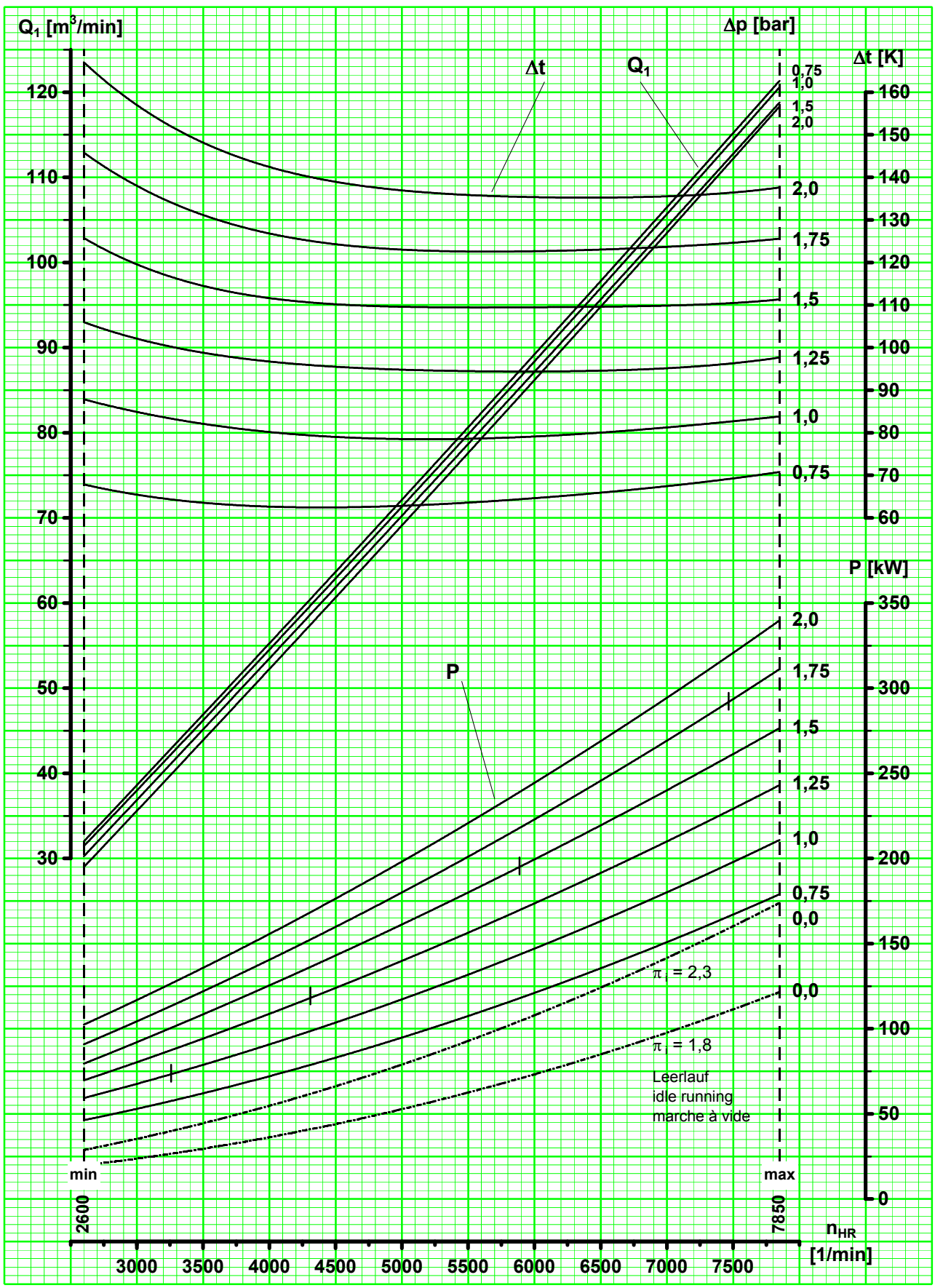

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VML 95

n_V / n_{HR} = i	10/2007	**V2 - 880 - a**