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.		

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
Rev. No.	Description	Date	Prepared by	Checked by	Approved by

300 KT polyethylene plant project (ASPC)

DATE: 4-7-2025	DOC NO.: 23383-11B COMPRESSOR DATA SHEET	REV. 02	PAGE: 2 of 6

VENDOR (COMPRESSOR) :	Airpack Netherlands B.V.			REFERENCE :	23383-COM						
TYPE / MODEL :	Aerzen VM100			SERIAL NO. :	T-2025-00804/00805						
SERVICE :	Nitrogen compressor			OPERATION :	Continuous						
QUANTITY :	2 (1+1)			ITEM NO. :	44C-40001A/B						
INLET CONDITIONS				**PACKAGE SCOPE OF SUPPLY**							
GAS HANDLED :	Nitrogen			COMPRESSOR TYPE :	Oil free screw						
INLET CONDITIONS				DRIVER TYPE :	MV motor						
PRESSURE	bar(g)	0,05		COUPLING / GUARD :	Flexible / Non-sparking						
TEMPERATURE	°C	48		RCU AND SAFETY SWITCHES FOR MOTORS:	N/A						
REL. HUMIDITY	%	0		INTAKE FILTER / SILENCER:	By others / Included						
OPERATING DENSITY	kg/m3	1,1		INTERCOOLING:	N/A						
MOLECULAR MASS	g/mol	28		AFTERCOOLER:	N/A						
Cp/Cv		1,4		LUBE-OIL COOLER:	Air-cooled						
Z		1		LUBE-OIL FILTER:	Included						
VISCOSITY	PaS	1.92*10^-5		AUTO CONDENSATE TRAP	N/A						
DISCHARGE CONDITIONS				AIR DRYER:	N/A						
PRESSURE	bar(g)	1,89		NITROGEN GENERATOR:	N/A						
FLOW RATE	Nm³/h	6416		BLOW-OFF SILENCER:	N/A						
TEMPERATURE	°C	189		CONTROL PANEL:	LPS and Junction box						
CONNECTION		ANSI 10" 150# RF		VIBRATION MONITOR:	N/A						
COMP. PERFORMANCE				INTERCONNECTING PIPEWORK & VALVES :	N/A						
SPEED	rpm	6994		ACOUSTIC ENCLOSURE:	Included						
ABSORBED POWER	kW	356		FOUNDATION BOLTS:	Included						
TYPE		Oil free screw		RECEIVER VESSELS:	N/A						
DESIGN TEMP/PRESS	°C/bar(g)	-10-280 / 5		LIGHTING:	N/A						
COMPRESSION RATIO		2,73		BASEPLATE	Included						
VOL. EFFICIENCY	%	99,8		FIRST OIL FILLING	Included						
NOISE @ 1M	dBA	80									
DRIVER PERFORMANCE 44C-40001A/B-M1				**UTILITY SUPPLIES**							
OPERATING SPEED	rpm	2988		ELECTRICAL SUPPLY :							
RATING	kW	450		V	6000	PH	3	Hz	50		
MANUFACTURER		WEG		V	400	PH	3	Hz	50		
NO. OF POLES		2		V	230	PH	1	Hz	50		
DRIVE		DIRECT		COOLING MEDIUM :			AIR				
		NOTE 1		TEMPERATURE:			AMBIENT				
COOLING METHOD		TEFC		PRESSURE:			AMBIENT				
SITE CONDITIONS				**WEIGHTS AND DIMENSIONS**							
ELEVATION	m	<1000		COMPRESSOR	kg	3716					
AMB. TEMPERATURE	°C	5-48		DRIVER	kg	4100					
AMB. PRESSURE	bar(g)	0		MISCELLANEOUS	kg	3900					
REL. HUMIDITY	%	65-100		TOTAL	kg	+/-12000					
AREA CLASSIFICATION		Zone 2 group IIB, T3									
NOISE LIMITATION	dBA	85		SIZE	mm	L X W X H	5700 X 2903 X 2080				
				BEARING HOUSING							
CASING				TYPE	ANTI-FRICTION						
MATERIAL		EN-GJL-250		BALL / ROLLER	ROLLER						
COOLING		AIR-COOLED									
DRIVE DIRECTION		CW		**LUBRICATION**							
				LUBE SYSTEM :			FORCED LUBRICATION, AIR COOLED				
				LUBE OIL PUMP DRIVE :	kW	SHAFT DRIVEN					
ROTORS				SYSTEM OIL CAPACITY	L	TBD					
NO. OF LOBES MALE		4		LUBE OIL COOLER		AIR-COOLED					
NO. OF LOBES FEMALE		6		LUBE OIL FILTER		INCLUDED					
MATERIAL		C45N		THERMOSTATIC VALVE		YES					
TIMING GEARS				**STANDARDS AND SPECIFICATIONS**							
MATERIAL		16 Mn Cr5		Compressor: Mfr. Std.							
TYPE		HELICAL, TEETH HARDENED									
SEALING				**INSTRUMENTATION**							
SHAFT SEALING TYPE		LABYRINTH		FUNCTION				TYPE(S)			
				COMPRESSOR INLET PRESSURE				GAUGE & TRANSMITTER			
SKID / COMPRESSOR CONNECTIONS (ASME B16.5)											
NOZZLE	SIZE	RATING	FACING	POSITION	COMPRESSOR DISCHARGE TEMPERATURE			TRANSMITTER			
NITROGEN INLET	12"	150#	RF	TOP	COMPRESSOR DISCHARGE PRESSURE			GAUGE & TRANSMITTER			
NITROGEN DISCHARGE	10"	150#	RF	TOP	COMPRESSOR OIL TEMPERATURE			TRANSMITTER			
PSV OUTLET	6"	150#	RF	TOP	COMPRESSOR OIL PRESSURE			GAUGE & TRANSMITTER			
					COMPRESSOR ENCLOSURE TEMPERATURE			TRANSMITTER			
					COMPRESSOR OIL LEVEL			SIGHT GLASS			
					MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)			RTD			

NOTES : 1: FOR MORE INFORMATION ABOUT THE DRIVER REFER TO MOTOR DATASHEET

300 KT polyethylene plant project (ASPC)

DATE: 4-7-2025	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	TBD				
41	REL. HUMIDITY	%	65-100	TOTAL		kg	TBD				
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	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	TBD				
54	NO. OF LOBES MALE		3	LUBE OIL COOLER			AIR-COOLED				
55	NO. OF LOBES FEMALE		4	LUBE OIL FILTER			INCLUDED				
56	MATERIAL		C45N	THERMOSTATIC VALVE			YES				
57											
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**							
59	MATERIAL		16 Mn Cr5	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**

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300 KT polyethylene plant project (ASPC)

DATE: 4-7-2025	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	1408				
39	AMB. TEMPERATURE	°C	5-48	DRIVER		kg	2235				
40	AMB. PRESSURE	bar(g)	0	MISCELLANEOUS		kg	TBD				
41	REL. HUMIDITY	%	65-100	TOTAL		kg	TBD				
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-200	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	TBD				
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	THERMOSTATIC VALVE			N/A				
57											
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**							
59	MATERIAL		16 Mn Cr5	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: 4-7-2025	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	TBD				
41	REL. HUMIDITY	%	65-100	TOTAL		kg	TBD				
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	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		TBD				
54	NO. OF LOBES MALE		4	LUBE OIL COOLER			AIR-COOLED				
55	NO. OF LOBES FEMALE		6	LUBE OIL FILTER			INCLUDED				
56	MATERIAL		C45N	THERMOSTATIC VALVE			YES				
57											
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**							
59	MATERIAL		16 Mn Cr5	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**

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300 KT polyethylene plant project (ASPC)

DATE: 4-7-2025	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	TBD				
41	REL. HUMIDITY	%	65-100	TOTAL		kg	TBD				
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	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		TBD				
54	NO. OF LOBES MALE		3	LUBE OIL COOLER			AIR-COOLED				
55	NO. OF LOBES FEMALE		4	LUBE OIL FILTER			INCLUDED				
56	MATERIAL		C45N	THERMOSTATIC VALVE			YES				
57											
58	**TIMING GEARS**			**STANDARDS AND SPECIFICATIONS**							
59	MATERIAL		16 Mn Cr5	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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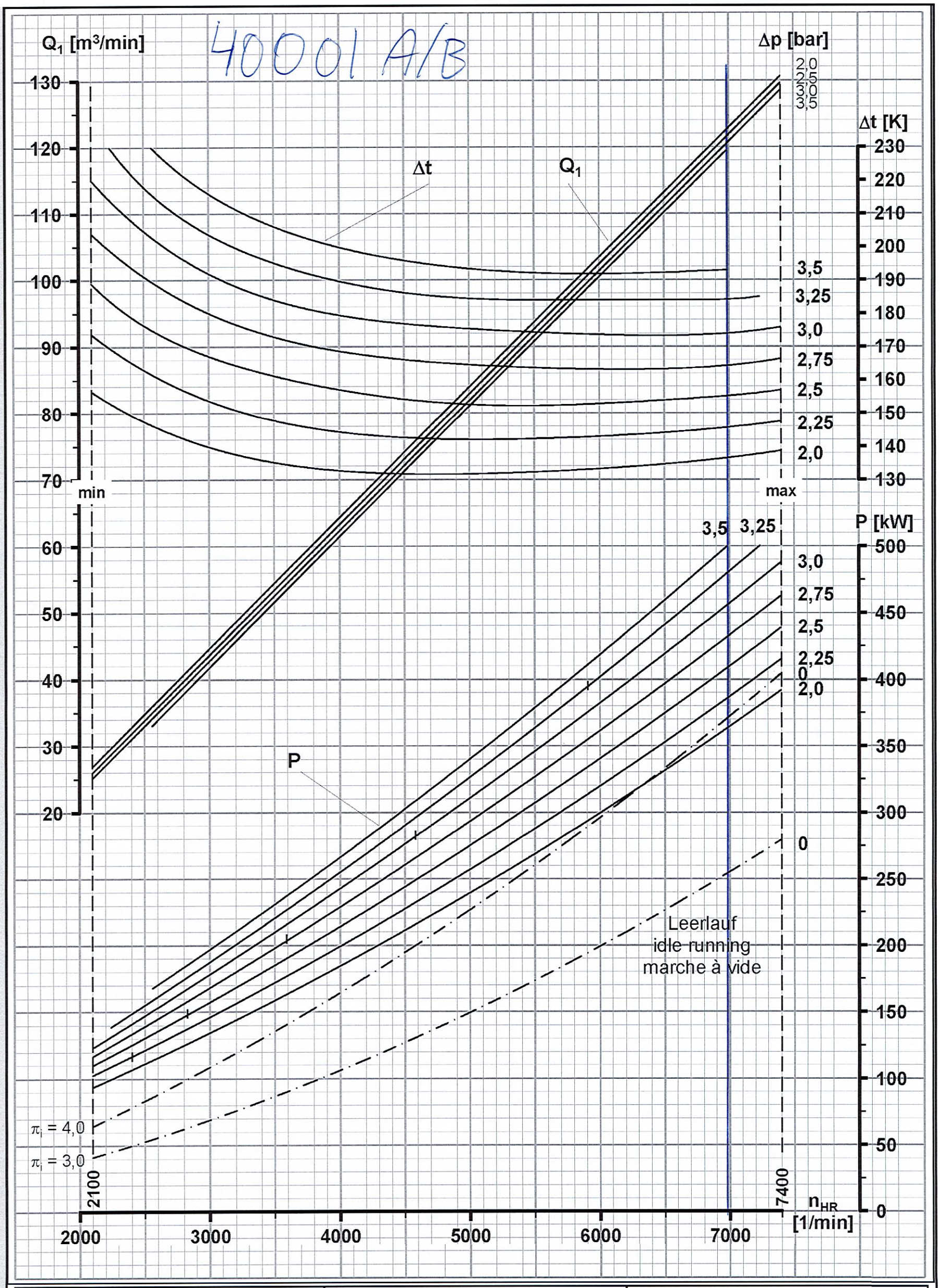

Q_1 : Ansaugvolumenstrom (Luft) bei p_1 = 1,0 bar und t_1 = 20°C	intake volume flow (air) at p_1 = 1.0 bar and t_1 = 20°C	débit aspiré (air) pour p_1 = 1,0 bar et t_1 = 20°C
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n_V : Antriebswellendrehzahl	drive shaft speed	vitesse de l'arbre d'entraînement
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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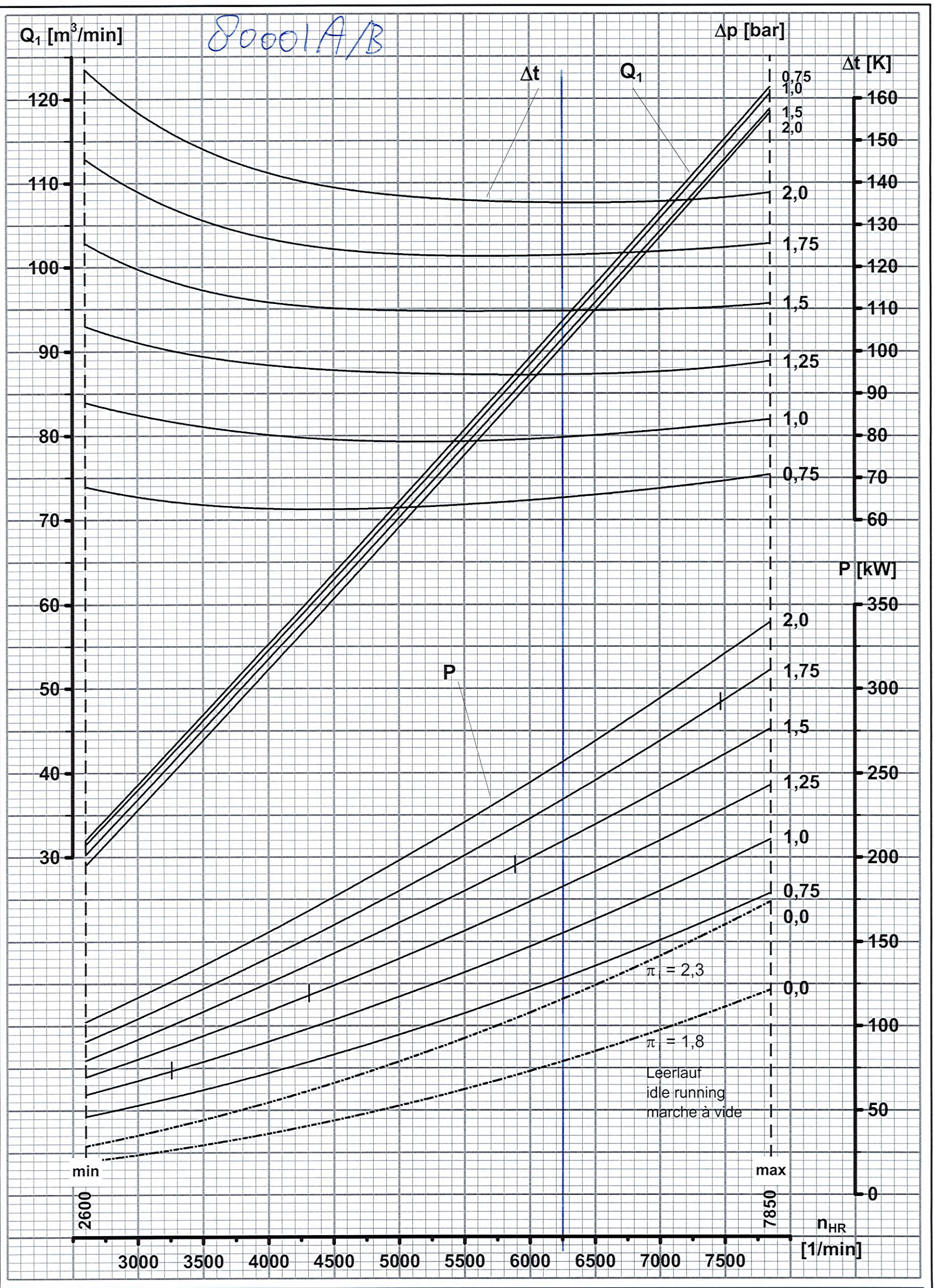

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Leistungsdiagramm - **Überdruck** - für Schraubenverdichterstufe
performance diagram - **overpressure** - for screw compressor stage
courbes de fonctionnement - **fonctionnement en pression** - pour étage de compresseur à vis

VML 95

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

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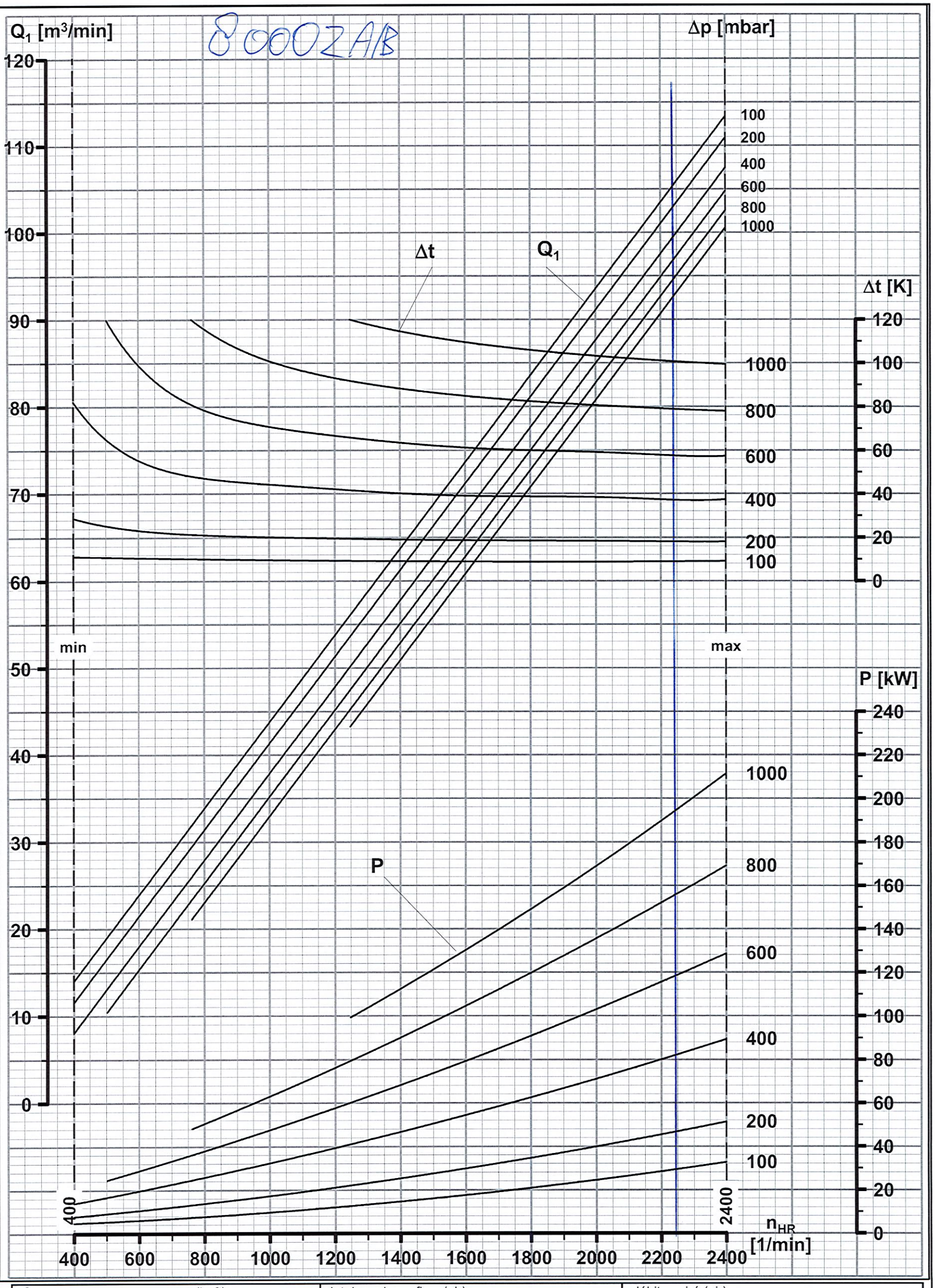

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Leistungsdiagramm - Überdruck - für Drehkolbengebläsestufe
performance diagram - overpressure - for stage of rotary piston blower
courbes de fonctionnement - fonctionnement en pression - pour étage de surpresseur à pistons rotatifs

GM 100 S

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

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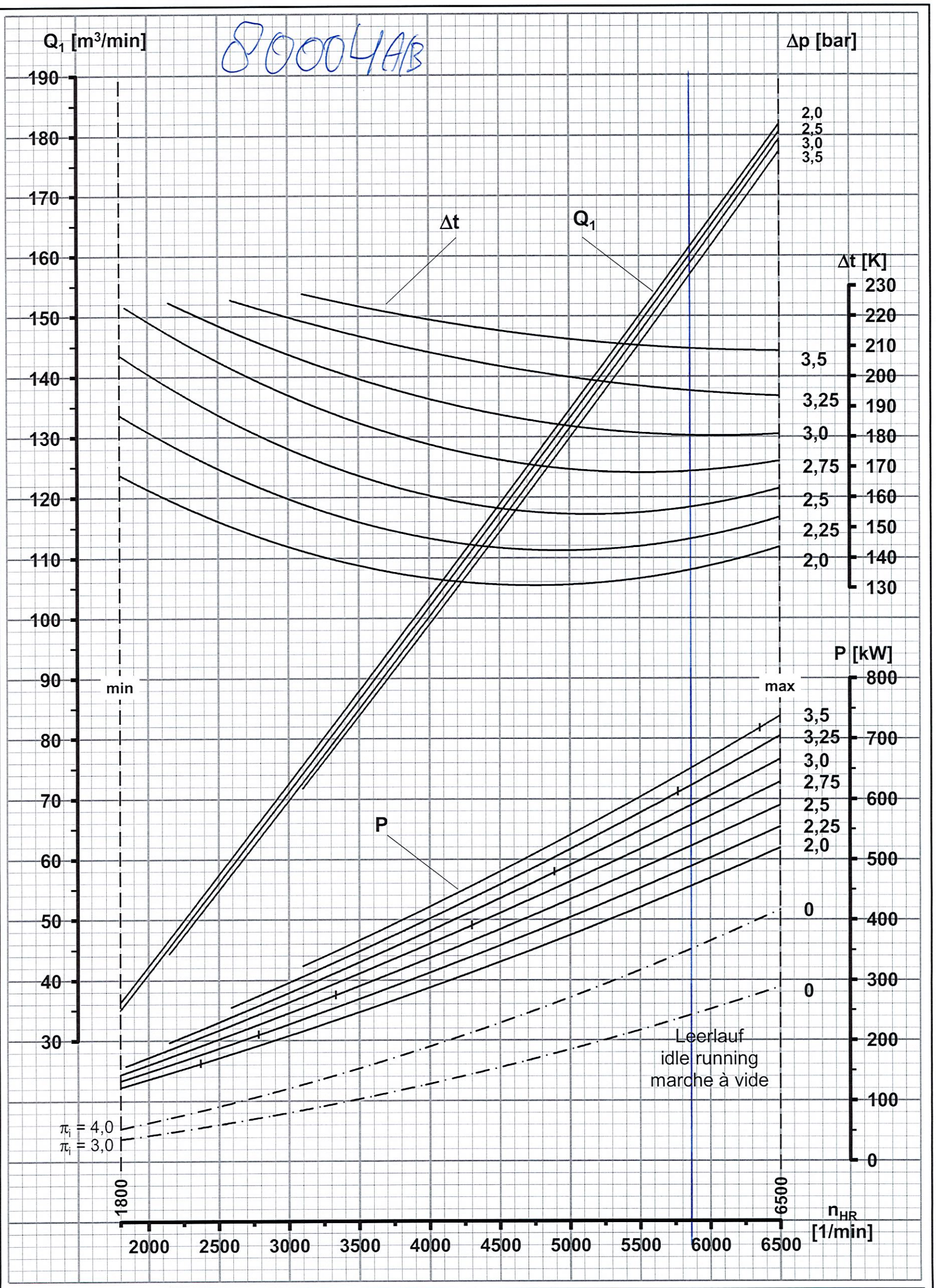

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Leistungsdiagramm - **Überdruck** - für Schraubenverdichterstufe
performance diagram - **overpressure** - for screw compressor stage
courbes de fonctionnement - **fonctionnement en pression** - pour étage de compresseur à vis

VM 140

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

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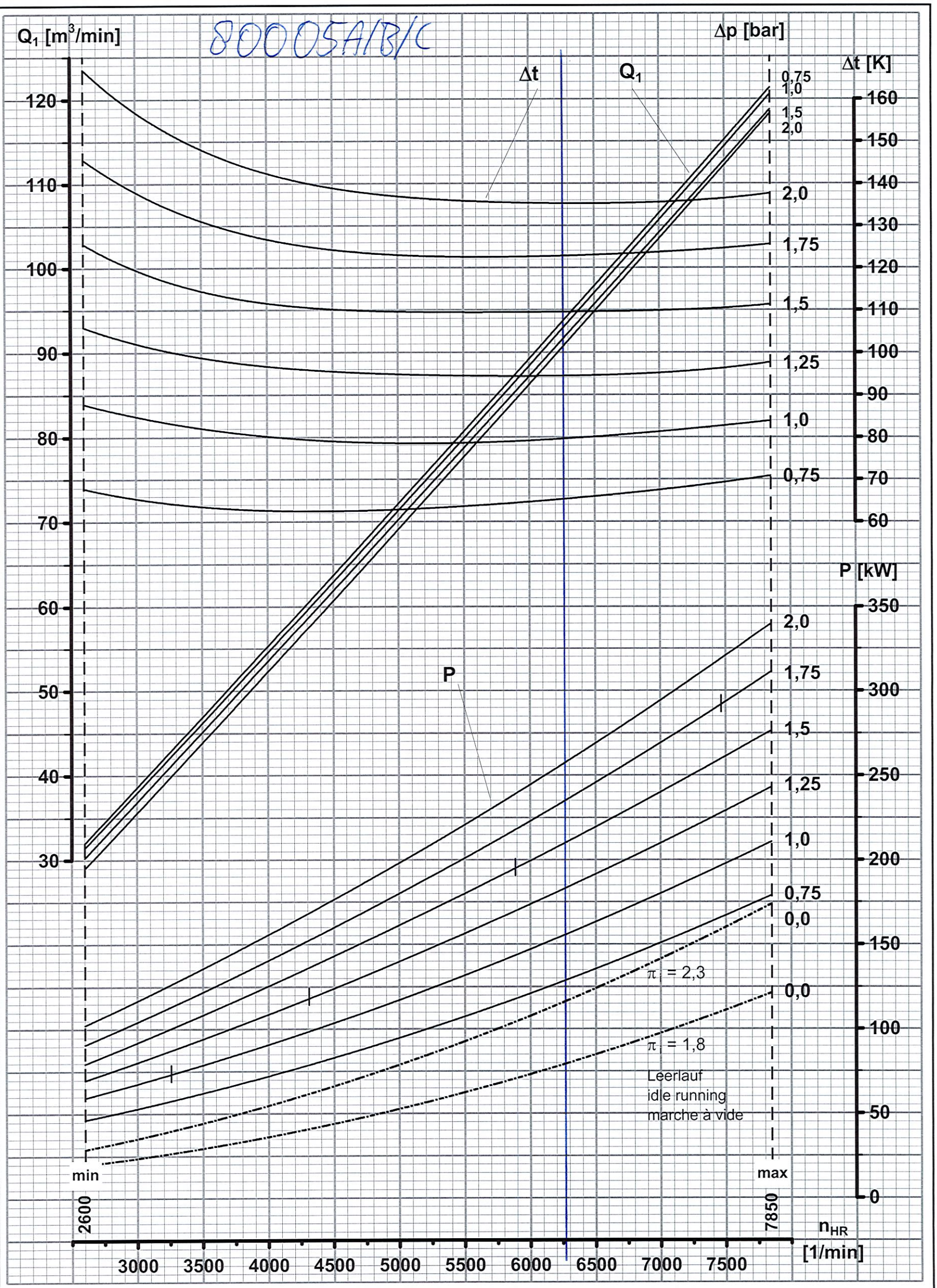

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Leistungsdiagramm - **Überdruck** - für Schraubenverdichterstufe
performance diagram - **overpressure** - for screw compressor stage
courbes de fonctionnement - **fonctionnement en pression** - pour étage de compresseur à vis

VML 95

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