

1. SCREW COMPRESSOR PLANTS

1.1 Low-pressure screw compressors

Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks				
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	(mm)	(kg)	
				inlet			outlet				(V)			(kW)
6BB25/9	Delivery of compressed air to pneumatic machines and mechanisms in coal and mining industries, installed on the mine surface, and to the other users in different , but food and medical industries	26	0.101 (1.03)	0.883 (9)	2925	5AH315A2CY2		3300x1125x2000	2950	Air cooling Y2				
						or 200								
						4AH315M2CY2,		2465x1170x2000	2560	Air cooling T2				
						4AH315M2CT2, 380 & 660		3300x1125x 2000	2900	Air cooling Y3				
						5AM280B2Y3	200	3300x1125x 2000	2950	For frequent starts up to 6 per hour				
						cMHP -M								
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks				

		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
6BB-32/7	Compressed air delivery to roller-bit drilling machines in open-cast mining	30.5	0.101 (1.03)	0.686 (7)	2925	5AH315A2CY2 or 4AH315M2CY2, 4AH315M2CT, 380 and 660	200	3300x1125x2000 2525x1125x2000 3300x1125x2000	3000 2630 2940	Air cooling Y2 Water cooling YXJ4 Air cooling T2
6BB-12/9	Ambient air compression and delivery to pneumatic systems in different but medical and food industries	12	0.101 (1.03)	0.883 (9)	1470	A02-92-4 380 and 660	100	3350 x 1125 x 2000 2465 x 1170 x 2000	2960 2640 2400	Air cooling Y3; YXJ4 Water cooling YXJ4
BB-2/9 YXJ4	Compressed Class 10 clean air de-livery to sta-tionary users in various but food and me-dical industries	2.0-0.14	0.1013 (1.033)	0.883 (9.0)	3000	AHP180S4Y2 380 & 660	22	1160 x 900 x 1190	620	
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)			rpm	Type & voltage			

			inlet	outlet		(V)	(kW)			
BB-2/9M	Compressed Class 10 clean air de-livery to sta-tionary users in various but food and me-dical industries	2.0-0.14	0.1013 (1.033)	0.883 (9.0)	3000	AИP180S4Y2 380 & 660	22	1160 x 900 x 1190	630	
BB-3,5/ 9 YXJI4	Compressed air delivery to pneumatic machines and tools.	3.7	0.1013 (1.033)	0.883 (9)	5969	5A200M2Y3 220 & 380	37	2100 x 900 x 1115	950	Air cooling
BB-4/7 YXJI4	Compressed air delivery to pneumatic machines and tools.	4.3	0.1013 (1.033)	0.686 (7)	686	5A200M2Y3 220 & 380	37	2100 x 900 x 1115	950	Air cooling
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	

			inlet	outlet		(V)	(kW)			
BB-4/9 YXJI4	Compressed air delivery to pneumatic machines and tools.	4.2	0.1013 (1.033)	0.883 (9)	6860	5A200L2Y3 220 & 380	45	2100 x 900 x 1115	970	Air cooling
BB-5/7 YXJI4	Compressed air delivery to pneumatic machines and mechanisms.	4.9	0.1013 (1.033)	0.686 (7)	7560	5A200L2Y3 220 & 380	45	2100 x 900 x 1115	970	Air cooling
ГБ-20/4-32YXJI4	Methane gas boosting in industrial systems	20	0.4 (4)	3.1 (31)	3000	2A3MB1-630/6000 Y5 6000	630	4600 x 2500 x 3100	20 000	Individual order
7ГБ-50.07M2	Hydrocarbon gases compression in artificial alcohol production	50	0.098 (1)	0.686 (7)	3000	BAO2-450LB-2Y2 6000	400	5950 x 2360 x 2550	9500	Individual order. Dimensions less control system and cooling block
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	

			inlet	outlet		(V)	(kW)			
6ГВ-18.06-19М1	Oil gas compression in АГФУ-1 absorption gas fractional plants at refineries	18	0.586 (6)	1.86 (19)	3000	BAO2-450LB-2Y2 6000	400	8230 x 2500 x 2500	14 100	Individual order.
7BKM-50/8	Air compression and delivery to the pneumatic systems of drilling machines	52	0.1013 (1.033)	0.784 (8)	3000	A3O-450LB-2Y1 6000	400	5680 x 2535 x 2085	8517 7697	Air cooling Y2 Water cooling YXJ14
7BKГ-30/7	Associated gas compression at final oil separation stage	32	0.0784 ((0.8)	0.686 (7)	3000	BAO2-450S-2Y2 6000	200	2980 x 1485 x 2218	5898	Dimensions less cooling block
Model	Purpose, application	Capacity	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
			m3/min	MPa(kgf/cm2)		Type & voltage	Power			
				inlet outlet		(V)	(kW)		(kg)	
7BKГ-	Associated gas	52	0.0784	0.686	3000	BAO2-450LB-2Y2	400	3190x1620x2218	7125	Dimensions

50/7	compression at final oil separation stage		((0.8) (7)		6000				less cooling block	
TAKAT- 50.07 in block- container design	Associated gas compression at final oil separation stage	50	0.098 0.686 (1) (7)	3000	BAO2-450LB-2Y2 400 6000		8210 x 2760 x 3840	20 872	Dimensions less control block	
TAKAT- 50.07M2 in block- container design	Compression of wet oil gas of specific mass up to 2 kg/m3	50	0.098 0.686 (1) (7)	3000	BAO2-450LB-2Y2 400 6000		8300 x 2760 x 3840	21 600	Individual order. Dimensions less control block	
TAKAT- 50.07M1 in block- container design	Flare gas compression at refineries	50	0.098 0.686 (1) (7)	3000	BAO2-450LB-2Y2 400 6000		8215 x 2760 x 3840	19210	Individual order.	
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
TAKAT- 18.06-17	Oil gas piping	18	0.58 1.668	2967	BAO2-450LB-2Y2 400 6000		8500x3000x4000.	20000	Individual order	

in block-container design									.Dimensions less control block	
TAKAT-10.03-17YXJI1 in block-container design	Natural gas design	10	0.3 (3) 1.688 (17)	3000	BAO3-280L 200	7800x2760x3840	13500	Individual order		
TAKAT-55.03-17YXJI1 in block-container design	Natural gas compression	55	0.3 (3) 1.688 (17)		4A3MB-1250/10000 1250 10000	11900x3080x3940	30000	Operates with TAKAT 12.16-50. Individual order		
TAKAT-12.16-50YXJI1	Natural gas	12	1.57 (50) 0.49 (16)		4A3MB-1000/10000 1000 10000	11300x3080x3955	25000	Operates with TAKAT 55.03-17 and independently. Individual order		
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
КАСКАД	Gaseous	95	0.11 2.45	3000	4A3M-800/6000		8205x4300x3018	18195	Individual	

-80/25	helium compression in cryogenic plants		(1.12) (25)		YXJI4 6000 800 4A3M-630/6000 YXJI4 6000 630			order
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1.2 High-pressure screw compressors

Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks		
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	
				inlet			outlet				(V)	(kW)
BB-1.5/9 YXJI4 BB-1.5/9 MYXJI4 BB-1.5/9 Y2 BB-1.5/9 MY2	Compressed Cl.10 air de- livery to sta- tionary users in various but food & medi- cal industries	1.5	0.1013 (1.033)	0.9 (9.0)	6010	АИC160MB2 380 & 660	15	1200x900x1190	430 420			
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks		
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	
				inlet			outlet				(V)	(kW)
TAKAT- 60.05,5- 15C	Hydrocarbon gas compression	60	0.539 (5.5)	1.47 (15)	8156	4A3MB-1000/6000 Y2,5 Exd II BT4 6000	1000	12100x3000x3940	21120	Individual order		
965ГВ- 200.19C	Flare gas compression	200	0.1-0.117 (1.02-1.2)	1.86 (1.86)	Stage1 3000	1MG1505-2QK30-Z SIEMENS complete		1036x8900x7500	80888	Individual order		

			(19.0)	St.2&3 7630	with frequency transducer 6300 V	1030			Dimensions less control block and automation system
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2. CENTRIFUGAL COMPRESSOR PLANTS, BLOWERS AND VACUUM - COMPRESSORS

2.1 Centrifugal compressor plants

Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)			rpm	Type & voltage			
			inlet	outlet			(V)		(kW)	
32BЦ-100/9	Compressed air delivery to industrial air power equipment and tools	100	0.098 (1)	0.88 (9)	30751	4A3M-630/6000YXJ4 4A3M-630/10000YXJ4 4APM-630/6000YXJ4 4APM-630/10000YXJ4 CTДM-630-2PYXJ4 6000 and 10000 630		3600x1800x1800	10200	
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)			rpm	Type & voltage			
			inlet	outlet			(V)		(kW)	
43BЦ-160/9	Compressed air delivery to industrial air power	160	0.098 (1)	0.88 (9)	25086	4A3M-1000/6000YXJ4 4A3M-1000/10000YXJ4 4APM-1000/6000YXJ4 4APM-1000/10000YXJ4		4000x2300x2050	12000	

	equipment and tools					СТДМ-1000-2PYXJI4 6000 and 10000 1000				
ЦКОН-125/9 (32БЦ-100/9М3)	Nitrogen compression and delivery to metallurgi-cal process lines	123	0.098 0.88 (1) (9)		25086	4A3M-800/6000YXJI4 6000 800		4550x2300x2050	11400	Individual order
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			

ЦКОН 43- 117/9А	Nitrogen co- mpression at nitrogen sta- tion and deli- very to pro- cess lines	117	0.098 0.882 (1) (9,0)	25086 19455	4А3М-800/10000УХЛ4 800		4000x2300x2050	13000	Individual order	
AEROCO M-22- 63/9	Air compres- sion and de- livery to liq- uid and ga- seous nitro- gen and oxy- gen produc- tion lines	62.6	0.097 0.882 (0.99) (9.0)	36665	4АРМ-400/6000УХЛ4 6000 400		4060x1800x2050	8500	Individual order	
ЦКОН 320/-0.8- 16 УХЛ4	Nitrogen co- mpression at oxygen sta- tion and delivery to metallurgical process lines	290	0.084 1.57 (0.858) (16)	30751	4А3М-1250/6000УХЛ4 6000 2500		10400x9400x2900	35000	Individual order	
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
TAKAT 100.09	Ambient air compression	100	0.098 0.88 (1) (9)		30751	4А3М-630/6000УХЛ4 6000 630		8500x3200x4500	20000	Individual order

in block-container design	and delivery to industrial air power equipment and tools for severe climate. Arrangements for the compressor are not required											
ЦК-135/8M1	Air or nitrogen compression in chemical and metallurgical industries	135	0.098 (1)	0.78 (7.8)	13535	4A3M-1000/6000YXJI4 4APM-1000/6000YXJI4 CTDM-1000-2PYXJI4 6000 and 10000 10000	9000x4600x5000	15400				
Model	Purpose, application	Capacity	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks		
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	
				inlet			outlet				(V)	(kW)
3ЦКК-100/3,5M	Oxygen compression in non-ferrous	100	0.1 (1.02)	0.34 (3.5)	11750	4A3M-600/6000YXJI4 6000	600	10500x5000x6105	23000	Individual order		

	metal industry											
KTK-7/14	Oxygen compression in chemical and metallurgical industries	116,6	0.098 (1)	1.37 (14)	13640	СТДМ-1250-23УХЛ4 6000 and 10000 1250		11000x5050x5700	24885			
KTK-12,5/35	Oxygen compression in chemical and metallurgical industries	208	0.1 (1.02)	3.43 (35)	13800	СТД-2-3150-23УХЛ4 6000 and 10000 3150		20500x4500x5000	38815			
4ГЦ1-200/3,5М УХЛ4	Oxygen compression for non-ferrous metal and mineral fertilizer production	210	0.1 (1.02)	0.34 (3.5)	9557	4А3М-1000/6000УХЛ4 6000 1000		11100x5300x6200	30000	Individual order		
Model	Purpose, application	Capacity	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks		
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	
				inlet			outlet				(V)	(kW)
4ГЦ1-250/5М УХЛ4	Oxygen compression for non-ferrous metal industry	250	0.0916 (0.935)	0.49 (5)	11033	4А3М-1600/6000УХЛ4 6000 1600		11400x5300x6900	32200	Individual order		

543ГЦ1-400/40	Oxygen compression in converter steel making	400	0.1 3.92 (1.02) (40)	9430	СТД-6300-2УХЛ4 6000 and 10000 6300	17800x 7200x6900	102000	Individual order
XTK-2,5/3,5M1	Dry chlorine compression in chemical industry	41,6	0.093 0.343 (0.95) (3.5)	11200	BAO2-450LB-2Y2, 4AH355S2Y3 380			

	synthesis process												
32ГЦ1-110/21	Propylene compression in 60000 tonnes/year ethylene-propylene rubber production line	110	0.103 (1.05)	2.058 (21)	12395	4A3МП-1600/10000YXJ4 10000 1600		12400x6250x6320	42010	Individual order			
ЦТК-56/31	Steam compression in desalinating plants	55,8	0.103 (1.03)	0.15 (1.5)	11136	4AM250S2Y2 380 75		2550x1095x915	1991				
3ЦКК-160/6	Nitrogen compression in ammonia synthesis plants	160	0.1 (1.02)	0.59 (6)	15436	4A3МП-1000/6000YXJ4 6000 1000		8800x4100x5800	26310				
Model	Purpose, application	Capacity	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks			
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power			(mm)	(kg)	
				inlet			outlet	(V)					(kW)
2ЦЦК-10/300-12/10	Nitrogen-hydrogen mixture circulation in	10.65	28.4 (291)	31.4 (321)	2965	ATMK-750-2Y 380 750		6940x1500x1600	26400				

	ammonia and methanol synthesis process cycle												
2IQIK-10/300-12/10 with el. motor, less H.P. casing; less el.motor and H.P. casing	Nitrogen-hydrogen mixture circulation in ammonia and methanol synthesis process cycle	10.65	28.4 (291)	31.4 (321)	2965	ATMK-750-2Y 380750		2570.5x 750x750	2395				
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks			
			m3/min			MPa(kgf/cm2)					rpm	Type & voltage	Power
						inletoutlet						(V)	(kW)
2IQIK-10/350-10 with el.	Nitrogen hydrogen mixture	10	31.4 (321)	34.3 (351)	2965	ATMK-750-2Y 380750		6940x1500x1600	26400				

motor, less H.P. casing; less el.motor and H.P. casing	circulation in ammonia and methanol synthesis process cycle										
22ЦКО- 42/8- 38M1	Natural gas compression in ammonia synthesis plants	42	0.8 3.8 (8) (38)	16800	4A3МП-2000/6000УХЛ4 6000 2000	12000x5700x6180	43000				
543ЦК- 450/35M 1	Air compres- sion in am- monia synthesis plants	450	0.1 3.5 (1) (35)	9600	СТДП-5000-2УХЛ4 6000 5000	14650x7000x6145	81660				
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks	
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)			(kg)
			inlet	outlet		(V)	(kW)				
5ЦД- 208/30- 45M	Hydrogenous gas circula- tion in gaso-	208	2.94 4.41 (30) (45)	8400	Steam turbine K6-30П 6020	12600x10050x6760	78400				

	line catalytic reforming plants													
3ЦКО-103/3,3-12М	Fat gas compression in slow-coking plant	103	0.323 (3.3)	1.178 (12)	13122	4А3МП-1600/6000УХЛ4 6000 1600	10350x7150x6210	30500	Individual order					
5ГЦ1-400/0,1-1,15У2	Vacuum generation in the system of hydrogen sulphide remove from coke-oven gas and de-livery to che-mical coke formation enterprises	400	0.1 (0.98)	0.113 (1.15)	9814	4АРТП-500/6000Х1У2 6000 500	10500x5200x5000	35000	Individual order					
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks				
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	(mm)	(kg)	
				inlet			outlet				(V)			(kW)
5ЦД-43/50-64	Circulation of hydrogenous in diesel fuel	43	4,9 (50)	6,07 (62)	6331	4А3МП-2000/6000УХЛ4 6000 2000	8750x7700x6580	40630						

	hydraulic gas refining plants									
3ГЦ2-36/132-168	Gas circulation in hydro-cracking production	36.56	13 16.47 (132.6) (167.9)	11619,5	4А3МП-4000/6000УХЛ4 6000 4000	10200x8100x6980	60000	Individual order		
4ГЦ2-58/25-56	Associated gas compression	58	2.45 5.49 (25) (56)	8238	СТДП-4000-2УХЛ4 6000 4000	9415x6650x4270	38500	Individual order		
4ГЦ2-109/18-76	Compression of dry petrol containing associated gas and delivery to the pipe-line	120	1.62 7.45 (16.5) (76)	11419	СТДП-12500-2УХЛ4 10000 12500	12420x6850x4350	58600	Individual order		
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
ГЦ 1-110/1,11 1,32У2	Process gas circulation at start & stop.	110	0.103 0.129 (1.11) (1.32)	3000	2В280S2У2 380	110	4225x1900x2020	12000	Individual order	

	Gas refining plants in sulphur prodction process									
4ГЦ2-130/6-65	Gas comp-ression in liquid hydro-carbon sta-bilization plant	130.6	0.56 (5.7)	6.48 (66)	8796	СТДП-6300-2Б УХЛ4 6000 and 10000 6300		9230x7100x5898	75450	Individual order
43ГЦ-6,3/110-Y-T Incl. com-pressor 43ГЦ2-100/5-110-T	Associated gas compression in gas-lift oil production	100	0.57 (5.7)	11.2 (112)	9480	СТДП-6300-2Б УХЛ4 10000 6300		36000x12000x11000	158600	Individual order
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
43ГЦ-	Associated gas	100	0,48	8,82	9480	СТДП-6300-2Б УХЛ4		36000x12000x11000	158600	Individual

6,3/90-Y-T including 43ГЦ2-100/5-90-B compres-sor	compression in gas-lift oil production		(4,9) (90)		10000 6300			order	
433ГЦ2-143/25-321ПМ	Nitrogen-hy-drogen mix-ture compre-ssion and maintenance of synthesis-gas circula-tion in ammo-nia synthesis unit	143	2.45 (25) 31.5 (321)	11268	Steam turbine 32000	88000x34000x21200	79000		
КЦКУ-4000 including 211ГЦ2-75/5,5-115 compress or	Associated gas compression and delivery to gas-lift oil production system	75	0,55 (5,6) 11,2 (112)	18810,8 21090,9	СТДП-4000-2P УХЛ4 10000 4000	18000x12000x10000	89000	Individual order	
Model	Purpose, application	Capacit y	Pressure	Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)	rpm	Type & voltage	Power	(mm)	(kg)	

			inlet	outlet		(V)	(kW)			
2ГЦ2-47/35-44 YXJ4	Compression of hydrogenated gas in the mode of reaction with regeneration or inert gas in regeneration duty	47	3.43 (35)	4.165 (42.5)	14161	4A3MΠ-2000/6000 YXJ4 6000	2000	7850x6600x5290	44000	Individual order
2ГЦ2-49/10-25 YXJ4	Natural gas compression and delivery to gas turbine engine combustion chambers incorporated into thermal power station energy modules	48.6	0.98 (10)	2.45 (25)	14032,6	4A3MΠ-2000/10000 YXJ4 10000	2000	7923x6335x4585	31000	Individual order
Model	Purpose, application	Capacity	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)			rpm	Type & voltage		Power	

			inlet	outlet		(V)	(kW)			
2ГЦ2-76/2,4-7,7	Hydrocarbon gas compression in slow coking plants	76	0.238 (2.43)	0.75 (7.73)	15675	4А3МП-800/6000YXJ4 6000	800	6500x5200x5170	21000	Individual order
4ГЦ2-230/24-31 YXJ4	Hydrogenous gas circulation in catalytic reforming reaction cycle	242	2.33 (23.8)	3.038 (31)	10092	CTДП-6300-2YXJ4 10000	6300	10010x9350x6880	63500	Individual order
32ГЦ2-63/4,5-41 YXJ4	Provision of hydrogen generation plant capacity	62.1	0.44 (4.5)	4.018 (41)	13557	4А3МП-3150/6000YXJ4 6000	3150	8300x2300x2360	46000	Individual order
44ГЦ2-49/24-46 YXJ4	Provision of hydrogen generation plant capacity	49	2.35 (24)	4.5 (46)	10731	4А3МП-3150/6000YXJ4 6000	3150	12500x8200x7050	59800	Individual order
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			

211ГЦ2-72/5,6-112 УХЛ4 For updating compress or stations and replaceme nt of compres-sors	Associated gas compres-sion after the first stage separation in gas lift oil production compressor systems	72.7	0.56 (5.6)	11 (112)	19714,3 19714,3 17692,3	СТДП-4000-2P УХЛ4 10000 4000		7300x2800x3000	37000	Individual order
AERO-COM AA-100/35A	Nitrogen compression and delivery to process lines	109.5	0.1 (1.033)	3.43 (0.35)	28549 36062 32627	СТДМ-1250-23 УХЛ4 6000 1250		10370x4000x3270	29000	Individual order
Model	Purpose, application	Capacit y	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks
		m3/min	MPa(kgf/cm2)		rpm	Type & voltage	Power	(mm)	(kg)	
			inlet	outlet		(V)	(kW)			
AERO-COM 43-	Air compres-sion.Applica-	120	0.097 (0.99)	0.882 (9)	22102 25377	4A3МП-800/6000ТМ5 800		3720x2230x1980	12500	Individual order

120/9 OM5	tion in food and medical industries is possible							
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2.2 Centrifugal blowers and units

Model	Purpose, application	Capacit y (m3/min)	Pressure MPa (kgf/cm2)		Rotor speed (rpm)	Electric motor		Dimensions (mm)	Mass incl. el. motor, spares controls, valves (kg)	Remarks
			inlet	outlet		Type & voltage (V)	Power (kW)			
ГЦ1- 56/1.5	Steam ther- mal power increase in sewage trea- tment; operation in desalinating plants	56	0.103 (1.03)	0.15 (1.5)	11136	4AMH-250S2Y3 660/380	110	2590X1530X2350	2800	
Model	Purpose, application	Capacit y m3/min	Pressure MPa(kgf/cm2)		Rotor speed rpm	Electric motor		Dimensions (mm)	Mass incl. el. motor, spares controls, valves (kg)	Remarks
			inlet	outlet		Type & voltage (V)	Power (kW)			
ЦХОН- 60/2,5	Air compression	60	1.033	2.5	35458	4AH-280M2 Y3 6000	200	2790x1270x1410	5000	
ЦХОН-	Air	160	1.033	1.8	20673	4APH-315/6000 YXJ14		3440x1500x1621	6500	

160/1,8	compression					6000	315					
HIQ-230/3-3,5	Nitrogen and hydrogen mixture compression in ammonia synthesis plants	233	0,294 (3)	0,343 (3,5)	7600	BAO2-450LB-2Y2,5 6000 400		10515x3530x3640	12600			
YHIQ-16-76/1,44	Natural gas piping as part of ГПА-16	400-590	5,17 (52,78)	7,45 (76)	5300	Gas turbine	16000	14550x12000x5080	98600	Individual order		
YHIQ-16-76/1,44A	Natural gas piping as a part of ГПА-16	400-590	5,17 (52,78)	7,45 (76)	5300	Gas turbine	16000	20000X120000X5000	129800	Individual order		
HIQ-12-76/1,44 YXJI4	Natural gas compression in ГПА-12 pipeline system	285	5,18 (52,78)	7,45 (76)	6500	Gas turbine	12000	2500x2700x1800	20000	Individual order		
Model	Purpose, application	Capacity	Pressure		Rotor speed	Electric motor		Dimensions	Mass incl. el. motor, spares controls, valves	Remarks		
			m3/min	MPa(kgf/cm2)		rpm	Type & voltage				Power	
				inlet			outlet				(V)	(kW)
AEROCO M HA-250/2,4	Air compression	250	0.098 (1.033)	0.235 (2.4)	18031	4A3M-800/6000 6000	YXJI4 800	4040x1478x2014	10000	Individual order		

ГЦ-215/0,15-1,35	Vacuum generation and delivery to acetylene concentrating plants	215	0.0147 (0.15)	0.1323 (1.35)	9195	4A3МП-630/6000 УХЛ4 6000 630	7500 x4000x7000	24830	Individual order
5ГЦ1-400/0,3-1,7	Inert gas circulation and vacuum generation in vacuum filter cylinders in de-waxing and de-oiling plants of the refineries	400	0,0294 (0,3)	0,167 (1,7)	9267	4A3МП-1250/6000 УХЛ4 6000 1250	11800X5400X6600	46550	Individual order

3. REFRIGERATING MACHINES AND UNITS

3.1. Centrifugal refrigerating machines and units

Model	Purpose and application	Refrigerating capacity			Rotor speed (rpm)	Electric motor		Dimensions (mm)	Mass incl. el motor, spares, controls, valves (kg)	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C		Type & voltage (V)	Pow er (kW)			
FOR FREON 10TXMB-2000-2	Refrigerant cooling in various processes and	<u>219000</u> <u>0_2540</u>	<u>+7</u> <u>+30</u>	-	7831	СТДМ-800-23УХЛ4 4A3M-800/6000 УХЛ4 СТДМ-630-	8006 30	6113x3950x2600 5340x3950x2600	24270 less el. motor	Freon R-134a

	in air-conditioning					23УХЛ4 4А3М-630/6000 УХЛ4 СТДМ- 6000and 1000 4А3М-6000				
10TXMB -2000-2T	Refrigerant cooling in various processes and in air-conditioning	<u>214000</u> 0 2480	<u>+7</u> +40	-	9254	СТДМ-1250- 23УХЛ4 6000 and 10000 4А3М- 1250/6000УХЛ4 6000	1250	6413x3950x2600 5894x3950x2600	24270 less el. motor	Freon R-134a
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	t _{s2} =°C t _{w1} =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
20TXMB -2000-2	Refrigerant cooling in various processes and in air-conditioning	<u>640000</u> 1900	<u>-5</u> +30	-	9254	СТДМ-800- 23УХЛ4 6000 and 10000 4А3М-800/6000 УХЛ4	800	6413x3950x2600 5340x3950x2600	24270 less el. motor	Freon R-134a
20TXMB -2000-2T	Refrigerant cooling in	<u>159000</u> 01840	<u>-5</u> +40	-	10302	СТДМ-1250- 23УХЛ4	1250	6413x3950x2600 5894x3950x2600	24270 less el. motor	Freon R-134a

	various processes and in air-conditioning					6000 and 10000 4A3M-1250/6000YXJ14				
30TXMB-2000-2	Refrigerant cooling in various processes and in air-conditioning	<u>130000</u> <u>01500</u>	<u>-15</u> <u>+30</u>	-	10302	CTDM-800-23YXJ14 6000 and 10000 4A3M-800/6000 YXJ14 6000	800	6413x3950x2600 5340x3950x2600	24270 less el. motor	Freon R-134a
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Pow er (kW)	(mm)	(kg)	
10TXMB-4000-2	Refrigerant cooling in various processes and in air-conditioning	<u>410000</u> <u>04760</u>	<u>+7</u> <u>+30</u>	-	5561	CTDM-1250-23YXJ14 6000 and 10000	1250	7040x5100x3560	46490	Freon R-134a
10TXMB-4000-2T	Refrigerant cooling in	<u>460000</u> <u>0</u>	<u>+7</u> <u>+40</u>	-	6529	CTDM-2000-23YXJ14 6000	2000	7330x5140x3560	50000	Freon R-134a

	various processes and in air-conditioning	5340				and 1000				
20TXMB-4000-2	Refrigerant cooling in various processes and in air-conditioning	<u>360000</u> 0 4186	<u>-5</u> +30	-	6529	CTDM-1600-23YXJ14 and 10000 6000	1600	7100x 5100x3560	46700	Freon R-134a
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
20TXMB-4000-2T	Refrigerant cooling in various processes and in air-conditioning	<u>350000</u> 04060	-5 +40	-	7125	CTDM-2000-23YXJ14 and 10000 6000	2000	7040x5100x3560 7100x5100x3560	47000	Freon R-134a
30TXMB-4000-2	Refrigerant cooling in various	<u>275000</u> 03190	<u>-15</u> +30	-	7125	CTDM-1250-23YXJ14 CTDM-1600-	1250 1600	7040x5100x3560 7100x5100x3560	46490	

	processes and in air-conditioning					23YXJ14 6000 and 10000				
10TXMB-8000-2	Refrigerant cooling in various processes and in air-conditioning	<u>760000</u> 0 8830	<u>+7</u> +30	-	6529	CTД-2500-23YXJ14 6000 and 10000	2500	8050x6250x4230	73000	Freon R-22
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Pow er (kW)	(mm)	(kg)	
10TXMB-8000-2T	Refrigerant cooling in various processes and in air-conditioning	<u>840000</u> 09760	<u>+7</u> +40	-	7623	CTД-3150-23YXJ14 6000 and 10000	3150	8300 x6250x4230	74580	Freon R-22
20TXMB-8000-2	Refrigerant cooling in	<u>650000</u> 0	<u>-5</u> +30	-	7623	CTД-2500-23YXJ14 6000 and 10000	2500	8050 x6250x4230	73000	Freon R-22

	various processes and in air-conditioning	7550								
MTXM-2000P	Coolant refrigeration in air conditioning	<u>200000</u> Q 2320	<u>+7</u> +30	-	8000	Steam turbine ТП-1Φ	736	6290x 3900x 3600	46600	Freon R-134a
MTXM-1000M	Coolant refrigeration in air conditioning	<u>107000</u> Q1240	<u>+7</u> +30	-	11500	ДА400-3000-OM4 380	400	5600x 2800x 2600	35500	Freon R-134a
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
1AIQ4.1-2-7	Operation as a part of BIOVITAMIN S cooling station	<u>663000</u> 770	-	<u>-75</u> -10	7700	4A3M-800/6000YXJI 6000	800	6500X9600X4650	45000	Freon R-22
1AIQ44.2-2-5	Refrigeration in commercial production	kW 1750 <u>1 isoth.</u> 1760	1 isoth <u>-50</u> +25 2 isoth.	-	6400	CTД-3150/10-YXJI4 6000 and 10000	3150	11000x7000x7000	40000 without heat-exchanging device	Freon R-22

		2 isoth	<u>-15</u> +25-28							
АЦКТ44 4.2-1-3	Cold generation in vinylchloride production	kW325 01 <u>isoth</u> 4590 2 isoth	-	<u>-33</u> -5	6529	СТДМ-1250-УХЛ4 6000 and 10000	1250	6900x2400x2600	15340	Freon R-134a
АЦ44.2- 2-5IIIB	Thermal stabilization of vitamin production process	kW 650 <u>1 isoth.</u> 3000 2 isoth.	1 isoth. <u>-68</u> +40 2 isoth. <u>-20</u> +40		7100	4А3М-3150.6000- 2УХЛ4 6000	3150	11000x7000x7000	40000 Less heat exchanging devices	Freon R-22
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Pow er (kW)	(mm)	(kg)	
FOR AMMO- NIA АТКА- 545-4000	Operation as a part of heavy commercial refrigerating plants	<u>550000</u> <u>06390</u>		<u>-23</u> +50	16280	СТДП-4000-2ПУХЛ 6000 and 10000	4000	8315x5850x6320	23850 less el. motor and XII-250	
АТКА- 545-5000	Operation as a part of heavy commercial	<u>550000</u> <u>06390</u>		<u>-17</u> +38	15000	СТДП-4000-2УХЛ 6000 and 10000	4000	8315x5850x6320	23850 less el. motor and XII-250	

	refrigerating plants									
ATKA-445-6000	Operation as a part of heavy commercial refrigerating plants	<u>680000</u> <u>07900</u>		<u>-8</u> <u>+38</u>	13770	СТДП-3150-2УХЛ 6000 and 10000	3150	8315x5850x6320	21650 less el. motor and XII-250	
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	t _{s2} =°C t _{w1} =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
ATKA-445-8000	Operation as a part of heavy commercial refrigerating plants	<u>895000</u> <u>010400</u>		<u>0</u> <u>+38</u>	13100	СТДП-3150-23УХЛ 6000 and 10000	3150	8315x5850x6320	21650 less el. motor and XII-250	
FOR PROPANE 1АТКП-235-4000	Operation as a part of heavy commercial refrigerating plants	<u>465000</u> <u>0</u> 5400		<u>-5</u> <u>+50</u>	14400	СТДП-2000-2УХЛ4 СТДП-2500-2УХЛ4 6000 and 10000 4А3МП-2000/6000 УХЛ4 4А3МП-2500/6000 УХЛ4	2000 2500 2000 2500	7000x 3500x4250	12600 less el. motor	

						6000				
1АТКП-335-2000	Operation as a part of heavy commercial refrigerating plants	<u>240000</u> <u>02790</u>		<u>-25</u> +50	14400	СТДП-2000-2УХЛ4 СТДП-2500-2УХЛ4 6000 and 10000 4А3МП-2000/6000 УХЛ4 4А3МП-2500/6000 УХЛ4 6000	2000 2500 2000 2500	7000x 3500x4250	12600 less el. motor	
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
1АТКП-435-1600	Operation as a part of heavy commercial refrigerating plants	<u>240000</u> 2790		<u>-38</u> +50	14400	СТДП-1600-2УХЛ4 СТДП-2000-2УХЛ4 6000 and 10000 4А3МП-1600/6000 УХЛ4 4А3МП-2000/6000 УХЛ4 6000	1600 2000 1600 2000	7000x 3500x4250	12600 less el. motor	
АЦ3.1-02-1	Operation as part of heavy refrigerating isobuthylene production plants	<u>473000</u> <u>05500</u>		<u>-1</u> +45	13300	4А3МП-2000/10000УХЛ4 10000	2000	7200x6300x6700	19000 less el. motor	

AIQ3.1-02-3	Operation as part of heavy refrigerating isobuthylene production plants	<u>309600</u> 0 360		<u>-17</u> +50	13500	СТДП-2000-2УХЛ4		8500x6500x7000	13540 less el. motor	
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
АТН5-5/3	Operation as part of heavy refrigerating isobuthylene production plants	<u>465000</u> 0 5400		<u>-38</u> +47	8800	СТДП-6300-2УХЛ4 СТДП-8000-2УХЛ4 6000 and 10000	6300 8000	9850x5000x4100	36000 less el. motor	
FOR AIR BXM1-29	Refrigeration of chambers for various processes	<u>25000</u> 29	-50 to -110		17400	4AMH2502Y3 380/660	132	3870x3700x2900	6640	Individual order. At customer's re-quest the plant can be completed with quick-

										freezing chamber for freezing up to 10 tons of food and for cli-matic tests of the equipment
Model	Purpose and application	Refrigerating capacity			Rotor speed	Electric motor		Dimensions	Mass incl. el motor, spares, controls, valves	Remarks
		Kcal/h kW	ts ₂ =°C tw ₁ =°C	t ₀ =°C t _k =°C	(rpm)	Type & voltage (V)	Power (kW)	(mm)	(kg)	
MTXM1-25P	Refrigeration in oil refining, chemical, steel, food, metallurgical machine-building, agricultural and civil building industries	2600030	-50 to -130		21200	4AMH2502Y3 380/660	110	4955x2550x2445	5970	

Note: ts₂ - refrigerant temperature at evaporator outlet;
t₀ - refrigerant boiling temperature;
tw₁ - water temperature at condenser inlet; ß
t_k - condensing temperature.

3.2 Refrigerating screw compressors for refrigerating machines and units

Model	Purpose and application	Refrigerating capacity				Rotor speed	Dimensions	Mass	Remarks
		Kcal/h kW	t _{intermediate} °C	t _{boiling} °C	t _{condes.} °C	(rpm)	(mm)	(kg)	
FOR FREON - 22 BX350-2- 1	Operation as part of general purpose refrigerating plants	<u>731000</u> 850±42 .5	-	5	35	2960	1585x 585x666	800	
BX30-2-7	Operation as part of commercial two-stage automatic refrigerating machines.	<u>112700</u> 131± 6,5	-20	-50	-	2925	1535x585x 666	800	
BX30-2-6	Operation as part of commercial 2-stage automatic refrigerating machines. Operation for ammonia is allowed.	<u>112700</u> 131± 6,5	-20	-50	-	2925	2065x656x666	1245	
Model	Purpose and	Refrigerating capacity				Rotor	Dimensions	Mass incl. el motor, spares,	Remarks

	application					speed		controls, valves	
		Kcal/h kW	$t_{s2}=^{\circ}\text{C}$ $t_{w1}=^{\circ}\text{C}$	$t_0=^{\circ}\text{C}$ $t_k=^{\circ}\text{C}$	Power consumption	(rpm)	(mm)	(kg)	
FOR AMMONI A BX350- 7-0	Operation as part of general purpose refrigerating plants	<u>702000</u> 816±40,8	-	0	35	2960	1360x585x666	723	
BX350- 7-2	Operation as part of general purpose refrigerating plants	<u>378400</u> 444±22	-	-15	30	2960	1360x585x666	723	
BX260- 7-6	Operation as part of general purpose refrigerating nits in booster-compressor mode	<u>2700003</u> 14±15.7	-10	-40	-	2920	1200x732x 655	955	

3.3 Refrigerating screw plants and units

Model	Purpose and application	Refrigerating capacity				Rotor speed	Dimensions	Mass	Remarks
		Kcal/h kW	t_{boiling} $^{\circ}\text{C}$	$t_{\text{condens.}}$ $^{\circ}\text{C}$	Power consumption	(rpm)	(mm)	(kg)	
FOR									

AMMONI A MKT130- 7-3									
FOR AMMONI A MKT130- 7-3 1MKT130 -7-3	Cold gene- ration for agricultural, process industry enterprises, farms	<u>130</u> 115000	-15	35	45,5	5860	3200x1900x2500 3100x1950x2950	4250 4650	
31A130-7- 3	Cold gene- ration for agricultural, process industry enterprises, farms	<u>130</u> 115000	-15	35	45,5	5860	2075x1000x1650	2050	
Model	Purpose and application	Refrigerating capacity				Rotor speed (rpm)	Dimensions	Mass	Remarks
		Kcal/h kW	t _{boiling} °C	t _{condes.} °C	Power consp- -tion		(mm)	(kg)	
31AK130- 7-3	Cold gene- ration for agricultural,		-15	35	47.2	5860	3200x1900x1900	2135	

	process industry enterprises, farms								
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Note: At Customer's request the above mentioned units can be converted to ozone safe refrigerants.

3.4.Packaged expander-compressor unit

Model	Purpose and application	Capa- city	Cool- ing capac- ity	Max. Press- ure		Gas tem- peratre drop in ex- pander	Dimensions	Mass	Remarks
		m ³ /s	kW	$\frac{\text{kg}\cdot\text{f}}{\text{cm}^2}$	°C	°C	(mm)	(kg)	
БДКА2-4УХЛ1	Associated gas refrigeration in low temperature condensation at gas process works	231,6	850	40	25	-80	15015x3230x6445	28300	

4. OTHER PRODUCTION

4.1.Centrifugal pumps

Model	Purpose and application	Num- ber of stages	Delive- ry	Head	Speed	Power consu- mption	Dimensions	Mass	Remarks
			m ³ /s (m ³ /h)	m	s ⁻¹ (rpm)	kW	(mm)	(kg)	

IQH300-120	Water pumping. Operation as part of electric pump units	2	0.083 (300)	120	24.6 (1475)	140	1365x810x830	1188	
IQH300-180	Water pumping. Operation as part of electric pump units	3	0.083 (300)	180	24.6 (1475)	210	1485x810x830	1402	
IQH300-240	Water pumping. Operation as part of electric pump units	4	0.083 (300)	240	24.6 (1475)	280	1605x810x830	1532	
IQH300-300	Water pumping. Operation as part of electric pump units	5	0.083 (300)	300	24.6 (1475)	350	1725x810x830	1782	
Model	Purpose and application	Number of stages	Delivery	Head	Speed	Power consumption	Dimensions	Mass	Remarks
			m ³ /s (m ³ /h)		s ⁻¹ (rpm)		(mm)	(kg)	
IQH300-360	Water pumping. Operation as part of electric	6	0.083 (300)	360	24.6 (1475)	420	1845x810x830	2052	

	pump units						
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4.2. Pilot plant for worn out tyres and rubber wastes processing (pyrolysis)

Model	Purpose and application	Dimensions	Mass	Basic technical parameters	Remarks
		(mm)	(kg)		
ПТРО-500Y1	Thermal processing (pyrolysis) of worn out tyres and rubber wastes	10000x9000x4000	25000	Mass of processed tyres per cycle, kg - 500 tyre diameters, mm: • internal - 350 • external - 220 Duration of rubber pyrolysis process, h, not more than - 5 Consumed power for ancillaries and instrumentation, kW - 20	

4.3. Truck-mounted oxygen dispensers

Model	Purpose and application	Capacity	Operation pressure (discharge)	Compressor type	Compressor drive	Cylinder capacity	Remarks
		Nm ³ /s	Mpa (kgf/cm ²)			Nm ³	
AK3C-75M131-III	Charging airborne systems and other capacities with medical oxygen or nitrogen	75	15(150)	Booster single-stage twin-cylinder reciprocal	From truck ЗИЛ-131H power take-off device	158	
AK3C-80/210-131	Charging airborne systems and other capacities with medical oxygen or nitrogen	80	21(210)	Booster single-stage twin-cylinder diaphragm-type	From truck ЗИЛ-131H power take-off device	220	
АГ3С-120/350-131	Charging airborne systems and other capacities with dry nitrogen	85	35(350)	Booster single-stage twin-cylinder diaphragm-type	From truck ЗИЛ-131H power take-off device	273	

4.4. Carbon dioxide reciprocal compressors

Model	Purpose and application	Capacity	Operation discharge pressure	Power consumption	Dimensions	Mass	Remarks
		kg/h	Mpa (kgf/cm ²)	kW	mm	kg	
KПY-0092M	Carbon dioxide pumping and pressure increase up to 12.0Mpa (kgf/cm ²) in reservoirs as compound of fire-extinguishing and welding systems	370	12,0(120)	3,67	720x570x 400	139	
KПY-0092M-01	The same for food industry	370	12,0(120)	3,67	860x570x 400	150	

4.5 Automatic self-discharging gas pressure reducer

Model	Purpose and application	Pressure at reducer inlet,		Operation adjustment pressure	Operating pressure maintenance accuracy	Dimensions	Mass	Remarks
		MPa(kgf/c m2)						
		max	min	Mpa (kgf/cm ²)	Mpa (kgf/cm ²)	mm	kg	
AДН-0063M1	Compressed gas pressure reduction up to required operating pressure. Working fluid is air or nitrogen with dew point not exceeding 218K(-	40 (400)	4 (40)	1,5-25 (15-250)	+ 0,2 (+2) - 0,1 (-1)	610x360x 580	180	

55°C)						
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4.6 Oxygen booster compressors

Model	Purpose and application	Capa- city	Opera- tion pre- ssure (discharg e)	Compressor type	Com- pres- sion ratio (not ex- ceedi ng)	Dimensions	Mass	Remarks
		Nm ³ /s	Mpa (kgf/cm ²)			mm	kg	
KП-75M	Gaseous oxygen or nitrogen pumping from one reservoir to another as a compound of oxygen plants	75	15(150)	Single-stage, twin-cylinder, reciprocal, boosting	3	720x570x400	131	
MK80-120/210	Gaseous oxygen or nitrogen pumping from one reservoir to another as a compound of oxygen plants	80	21(210)	Single-stage, twin-cylinder, reciprocal, diaphragm-type	5	680x1200x675	550	Can be supplied for operation pressure 350 kgf/cm ² and compression ratio p to 10

5.REPAIR KITS FOR PREVIOUSLY DELIVERED EQUIPMENT (repairs under customer`s conditions)

5.1 Repair kits for oxygen turbo-compressors

Model	Drawing number	Scope of delivery
KTK-12,5/35	2950001	Step-up gear with oil pump and foundation plate, low pressure, mean pressure, high pressure casings with foundation plates intermediate and end gas coolers, oil cooler, gear couplings
KTK-7/14	2950002	L.P.,H.P. casings with foundation plates, step-up gear with oil pump and foundation plate,

		oil coolers, gas coolers, gear couplings
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5.2. Repair kits for chlorine turbo-compressor

Model	Drawing number	Scope of delivery
XTK-2,5/3,5 No 1	2950006	Casing and foundation plates as a unit; step-up gear with oil pump, gear couplings as a unit
XTK-2,5/3,5 No 2	2950006-01	Rotor, bearings for compressor casing and step-up gear, base oil pump, combs

5.3. Repair kit for gas turbine compressor

Model	Drawing number	Scope of delivery
ГТК-7/5М1	2950007	Casing assembled with foundation plates, step-up gear with oil pump, bearings and other parts and units

5.4. Repair kits for gas-synthesis compressors

Model	Drawing number	Scope of delivery
439ГЦ2-143/25-321ПМ	3111154	Aerodynamic unit and rotor as a unit, end seals, casing bearings, set of internal locking rings, gear couplings
КНД(L.P.Casing)	3111155	
КСД(M.P.Casing)	3111156	
КВД(H.P.Casing)		
For "MITSUBISHI" compressors	3111191 3111192	Aerodynamic unit and rotor as a unit, end seals, casing bearings, set of internal locking rings, gear couplings
For "DRESSER" compressors	3111200 3111201 3111203	Aerodynamic unit and rotor as a unit, end seals, casing bearings, set of internal locking rings, gear couplings

5.5. Repair kits for compressors used for gas lift oil production and gas processing

Model	Drawing number	Scope of delivery
43ГЦ-100/5-110	2012009	Aerodynamic unit and rotor as a unit for L.P. and H.P. casings, gear, step-up gear bearings, semi-coupling fitting and removing devices, O-rings.
4ГЦ2-109/18-76	3111210	Aerodynamic unit and rotor as a unit, end seals, set of O-rings for internals
5ЦД-208/30-45М	29500010Т3	Aerodynamic unit rotor as a unit, casing end seals, bearing parts, set of labyrinth seals

	2950014	
5ЦД-43/50-64	2950011Т3 2950028 2950012	Aerodynamic unit and rotor as a unit, casing end seals of, set of easy wearing assembly units and parts of end seals and bearings, gear coupling

5.6.Repair kits for centrifugal compressors used for hydrogenous gases compression

Model	Drawing number	Scope of delivery
2ГЦ2-48/43-50 YXJ4	2201-1895Т3	Compressor casing for hydrogenous gas circulation in benzole production process; supplied without motor and step-up gear

5.7.Repair kits for ammonia refrigerating units

Model	Drawing number	Scope of delivery
ATKA-735	2950024	Turbine compressor with foundation plate, coupling body, turbo-compressor step-up gear coupling parts
	2950025	Step-up gear with oil pump and foundation plate
ATKA-545	2950022 2950019	Turbo - compressor with foundation plate, coupling body, gear coupling. Step-up gear with oil pump and foundation plate

5.8.Repair kits for freon turbine machines

Model	Drawing number	Scope of delivery
10TXMB-2000-2	2950020	Turbo-compressor
20TXMB-2000-2	2950021	Turbo-compressor
20TXMB-4000-2	2900719	Turbo-compressor
10TXMB-8000-2	2900724	Turbo-compressor

Appendix 1.

Schedule of lubrication of 6BB-58/3.5C compressor unit

Lubrication	Oil grade as per	Oil quantity	Period between	Lube material	First replacing	Replacing	Annual	Remarks
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point	IOC	for 1 st filling	checks	for refilling, l/kg		frequency	requirement	
Compressor, step-up gear, geared coupling	ТП- 22С(КП8С) Turbo Т32 (Chell,USA) Energol TBH32 (Britain)	220 to 250 liters	Technical inspection (maintenance) 24 hours	50 l max	after 3000h of operation and not less than once a year	once a year	300 liters	