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To Whom It May Concern

Unser Zeichen // Our Ref.

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V. Pfeil

Datum //Date

February, 04, 2011

Technical data sheet for Ammonia compressors

Dear Sirs,

Please find below the information about BITZER compressors for Ammonia application.

Technical Data Sheet for Reciprocating Compressors

Compressor Make & Model	Speed rpm	Displacement m ³ /h	Operating conditions SST/ SDT	Cooling capacity kW	Power consumption kW	Motor rating kW
BITZER W2TA	1450	19,68	-5°C/ 40°C	13,69	3,59	4,0
BITZER W2NA	1450	28,00	-5°C/ 40°C	19,45	5,10	5,5
BITZER W4TA	1450	39,36	-5°C/ 40°C	27,40	7,17	7,5
BITZER W4PA	1450	47,14	-5°C/ 40°C	32,70	8,57	11,0
BITZER W4NA	1450	56,10	-5°C/ 40°C	38,90	10,20	11,0
BITZER W4HA	1450	73,60	-5°C/ 40°C	49,70	12,69	15,0
BITZER W4GA	1450	84,50	-5°C/ 40°C	57,10	14,81	18,5
BITZER W6HA	1450	110,50	-5°C/ 40°C	74,60	19,05	22,0
BITZER W6GA	1450	126,80	-5°C/ 40°C	85,70	22,20	30,0
BITZER W6FA	1450	151,60	-5°C/ 40°C	102,60	26,50	30,0

Geschäftsführer // Managing Directors:

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Technical Data Sheet Screw Compressors

Compressor Make & Model	Speed rpm	Displacement m ³ /h	Operating conditions SST/ SDT	Cooling capacity kW	Power consumption kW	Motor rating kW
BITZER OSKA5341-K	2900	84,00	-5°C/ 40°C	61,80	18,06	22,0
BITZER OSKA5351-K	2900	100,00	-5°C/ 40°C	73,60	21,50	30,0
BITZER OSKA5361-K	2900	118,00	-5°C/ 40°C	86,80	25,40	30,0
BITZER OSKA7441-K	2900	165,00	-5°C/ 40°C	123,40	36,90	45,0
BITZER OSKA7451-K	2900	192,00	-5°C/ 40°C	143,20	39,50	45,0
BITZER OSKA7461-K	2900	220,00	-5°C/ 40°C	164,10	45,20	55,0
BITZER OSKA7471-K	2900	250,00	-5°C/ 40°C	186,50	51,40	75,0
BITZER OSKA8551-K	2900	315,00	-5°C/ 40°C	222,00	67,40	75,0
BITZER OSKA8561-K	2900	359,00	-5°C/ 40°C	260,00	76,70	90,0
BITZER OSKA8571-K	2900	410,00	-5°C/ 40°C	315,00	85,80	110,0
BITZER OSKA8581-K	2900	470,00	-5°C/ 40°C	371,00	96,60	110,0
BITZER OSKA8591-K	2900	535,00	-5°C/ 40°C	410,00	110,70	132,0

1. Detailed technical data sheets for each compressor model includes the performance data, technical data, application limits, lubricant information and dimensional drawing. See attachments.
2. The publishing of the performance data based on European standard EN 12900. See attachment.
3. The published performance data are based on measurements carried out in the laboratory at BITZER factory in Schkeuditz/ Germany (for reciprocating compressors) and Rottenburg-Ergenzingen/ Germany (for screw compressors). The test are done based on European standard EN13771 (Performance testing and test methods). BITZER uses the "Flow Meter Method" as described in the standard EN13771; chapter 5.6. See attachment.

With best regards,

i.A. Volkmann/Pfeil

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To Whom It May Concern,

Date – 4th Oct 2011

Technical data sheet for BITZER screw ammonia compressors with VFD (Variable Frequency Drive option – 3500 RPM)

Dear Sir,

Please find below the information on BITZER ammonia Compressors -

Technical Data sheet for BITZER compressors using VFD (Variable Frequency Drive)

Compressor Make & Model	No's	Compressor RPM (With VFD)	Operating parameters SST/SDT (deg C)	Refrigeration Capacity (KW)	Motor Rating (KW)	Power Input (KW)	COP	Remarks (Working / Standby)
BITZER OSKA 5341 K	1	3500	-5/40	74.6	24.5	21.8	3.42	Working
BITZER OSKA 5351 K	1	3500	-5/40	88.8	33.5	25.9	3.42	Working
BITZER OSKA 5361 K	1	3500	-5/40	104.8	41.5	30.6	3.42	Working
BITZER OSKA 7441 K	1	3500	-5/40	148.9	51	44.6	3.34	Working
BITZER OSKA 7451 K	1	3500	-5/40	172.8	62	47.6	3.63	Working
BITZER OSKA 7461 K	1	3500	-5/40	198.1	62	54.6	3.63	Working
BITZER OSKA 7471 K	1	3500	-5/40	225	84	62	3.63	Working
BITZER OSKA 8551 K	1	3500	-5/40	268	101	81.4	3.3	Working
BITZER OSKA 8561 K	1	3500	-5/40	334	123	92.6	3.39	Working

Geschäftsführer/Managing Directors:

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BITZER OSKA 8571 K	1	3500	-5/40	380	123	103.5	3.67	Working
BITZER OSKA 8581 K	1	3500	-5/40	448	148	116.5	3.85	Working
BITZER OSKA 8591 K	1	3500	-5/40	494	148	133.6	3.7	Working

1. The publishing of the performance data based on European standard EN 12900.
2. The published performance data are based on measurement carried out in the laboratory at BITZER factory Rottenburg / Germany. The test are done based on European standard EN 13771 (Performance testing and test method). BITZER uses the flow meter method as described in the standard EN 13771, Chapter 5.6.

With regards,

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AUTHORISED SIGNATORY

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