

# GRASSO RC611 NH3 PLANT

## Compressors:

*Brand:* Grasso  
*Type:* RC 611  
*Capacity p/c:* 440 kW at -7 °C/+35 °C  
*Electromotor:* 132 kW at 1475 RPM (With pulley 865 RPM)  
*Refrigerant:* NH3 (ammonia)  
*Remarks:* - On steel base frame - High pressure oil pump  
- Oil separator, 312 ltr. - Pressure safety switches  
- Unloaded start - Capacity control  
*Running hours:* Compr. 1: 23.890 // Compr. 2: 23.917 // Compr. 3: 23.638 // Compr. 4: 23.816  
All compressors have been overhauled at 20.000 hours!  
*Pieces:* 4

## Evaporators:

*Brand:* Goedhart  
*Type:* PLK 16x9-4800/60x60-8  
*Capacity:* 81,8 kW  
*Refrigerant:* NH3 (ammonia)  
*Defrosting:* Hot Gas  
*Nr. of fans:* 3  
*Fan space:* 8 mm  
*Fan info:* 1,4 kW / 940 RPM  
*Air flow:* 56.000 m³/h  
*Surface flow:* 604 m²  
*Air through:* 33 m.  
*Sizes:* 5350x2900x1200 mm (LxWxH)  
*Weight:* 3.000 kg per piece  
*Pieces:* 18

Including: *Control station;*  
Each evaporator has a control station installed, which includes the following;  
- On the liquid injection: Control Valve, Solenoid Valve, Filter, Non-return Valve, Stop Valve  
- On the suction connection: Solenoid Valve, Valve  
- On the hot gas injection: Non-return Valve, Solenoid Valve, Filter, Stop Valve

All components of this control station are separateable through Grasso hand valves. Each evaporator is equipped with an end defrost thermostat.

## Cooling Towers:

*Brand:* Baltimore  
*Type:* FXT-266R  
*Capacity p/c:* 1.220 kW  
*Refrigerant:* NH3 (ammonia)  
*T= income:* 32 °C  
*T= outcome:* 27 °C  
*T= wet bulb:* 22 °C  
*Nr. of fans:* 2  
*Air flow:* 143.400 m³/h  
*Sizes:* 5600x2220x2540 mm (LxWxH)  
*Oper. Weight:* 5.565 kg per piece  
*Pieces:* 2

## Including two horizontal closed 'Shell and Tube' Condensers:

*Brand:* Quiri  
*Type:* CDHA 680/4/60-4PASS  
*Capacity p/c:* 1400 kW  
*Refrigerant:* NH3 (ammonia)  
*Cond. Temp.:* 35 °C  
*Water inlet:* 27 °C  
*Water outlet:* 32 °C  
*Water flow:* 250 m³/h  
*Sizes:* 6650x990 mm (LxØ)  
*Weight:* 7.550 kg per piece  
*Pieces:* 2

Including three (one as spare) Waterpumps incl. Electromotor:

*Brand:* SIHI  
*Type:* NOWA 150/32A – Ø 275 B  
*Capacity p/c:* 1400 kW  
*Height Q:* 23 mwk  
*Electromotor:* 18,5 kW (direct driven)  
*NPSH:* 3,2 mwk  
*RPM:* 1475 t/min  
*Pieces:* 3 (1 as spare)  
*Including:* 1x Watertank (3500x800 mm LxØ)

**NH3 Separator:**

*Brand:* Axima  
*Contents:* 13.808 ltr.  
*Refrigerant:* NH3 (ammonia)  
*Sizes:* 5000x1800 mm (LxØ)  
*Including:* - Valves  
*Remarks:* Horizontal model  
*Pieces:* 1

- 2x High pressure Floaters

Including NH3 pumps:

*Brand:* Witt  
*Type:* GP51  
*Pieces:* 4

**Including:**

- Control panel which are consisting off;
- Compressors regulation
- Evaporators regulation
- Cooling Towers regulation
- Relais

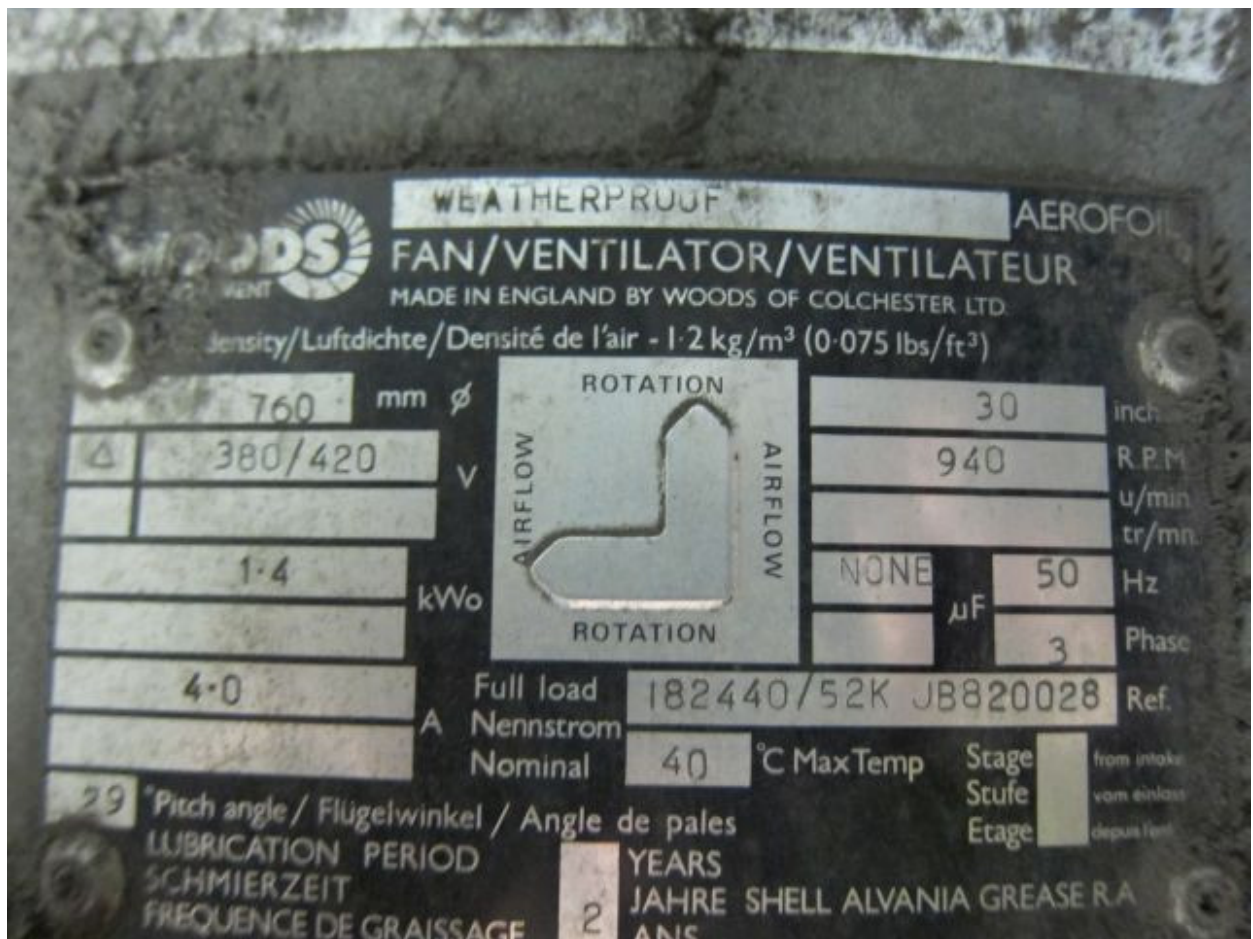
**Including:** All original documentation, drawings and electric drawings included!























SIEMENS

COROS OP15



F1 F2 F3 F4 F5 F6 F7 F8

K1 ANA	K2 MACH	F1	F2	7	8	9		* DEL INS	
F3	K6	K7	K8	4 <sup>D</sup>	5 <sup>E</sup>	6 <sup>F</sup>	HARD COPY		
K9	K10	K11	K12	1 <sup>A</sup>	2 <sup>B</sup>	3 <sup>C</sup>		* SHIFT	
K13	K14	K15	K16	.	0	+/-	*		