

Appendix 19 - Ammonia Refrigeration Plant Air Cooled Condenser Specification Phase 1



Sound Pressure Levels (SPL) in dB RE 0.0002 Microbar

Sound Power Levels (PWL) in dB RE 10-12 Watt

MODEL ATC-1166E

MOTOR 30.00 kW

MOTORS 2

SPEED: Full Speed

2 CELL DATA

		SOUND PRESSURE LEVEL (dB)											SOUND POWER LEVEL (dB)
		End		Motor Side		Opp End		Opp Mtr. Side		Top			
		5 ft (1.5m)	50 ft (15m)	5 ft (1.5m)	50 ft (15m)	5 ft (1.5m)	50 ft (15m)	5 ft (1.5m)	50 ft (15m)	5 ft (1.5m)	50 ft (15m)		
BAND													
63 HZ	75	69	74	68	75	69	74	68	76	60	99		
125 HZ	71	64	70	63	71	64	70	63	77	64	96		
250 HZ	66	56	65	55	66	56	65	55	70	61	89		
500 HZ	65	54	66	52	65	54	66	52	68	56	86		
1 KHZ	65	50	63	50	65	50	63	50	66	54	83		
2 KHZ	63	48	62	49	63	48	62	49	64	52	81		
4 KHZ	64	46	62	45	64	46	62	45	65	51	79		
8 KHZ	66	44	65	44	66	44	65	44	65	52	79		
CALC dBA	72	57	71	56	72	57	71	56	73	61	90		

Sound option(s) selected: Super Low Sound Fan
Water Silencers

- REMARKS:
1. Sound Pressure Levels are according to CTI Standard ATC-128
 2. Sound Power Levels are calculated according to the Small Units Section 8
 3. Sound from free-field conditions over a reflecting plane with +/-2 db(A) tolerance
 4. Noise levels can increase with variable frequency drives depending on the drive manufacturer and the drive configuration
 5. Complete unit sound data with all fans operating