

Precision Cooling
For Business-Critical Continuity

Liebert InteleCool®2
A Real Choice For Telecom Shelter Air Conditioning



Flexible Air Conditioning Designed For The Needs Of Today's Telecommunications Shelters

Choose The Cooling Solution That's Right For Your Shelter Location

Liebert, the first name in protection for sensitive systems, has created the Liebert IntelCool[®]2 specifically for shelter air conditioning applications. More than just a shelter air conditioner, the Liebert IntelCool2 is a custom configured cooling system that fits your exact needs and budget. Designed with the flexibility to match the needs of today's telecommunications industry, you pick the level of protection your application requires and Liebert will configure a Liebert IntelCool2 for you.

Reliability:

- Optional aluminum exterior panels for enhanced weather resistant cabinet.
- Heavy-duty, double-width blower system.
- Copper-tube, aluminum fin coils.
- Designed for operation in low ambient conditions.

Flexibility:

- Choice of rugged hermetic compressor or high efficiency scroll compressor.
- Five capacities ranging from 1.5 to 5 tons.
- Easy service access — Compressor located on either left or right side.
- Field replacement/upgrades — 4 and 5 ton units available with 3 ton air openings.

Low Total Cost Of Ownership:

- Economizer option utilizes outside air for cooling to save energy.
- Self-contained unit minimizes installation time.

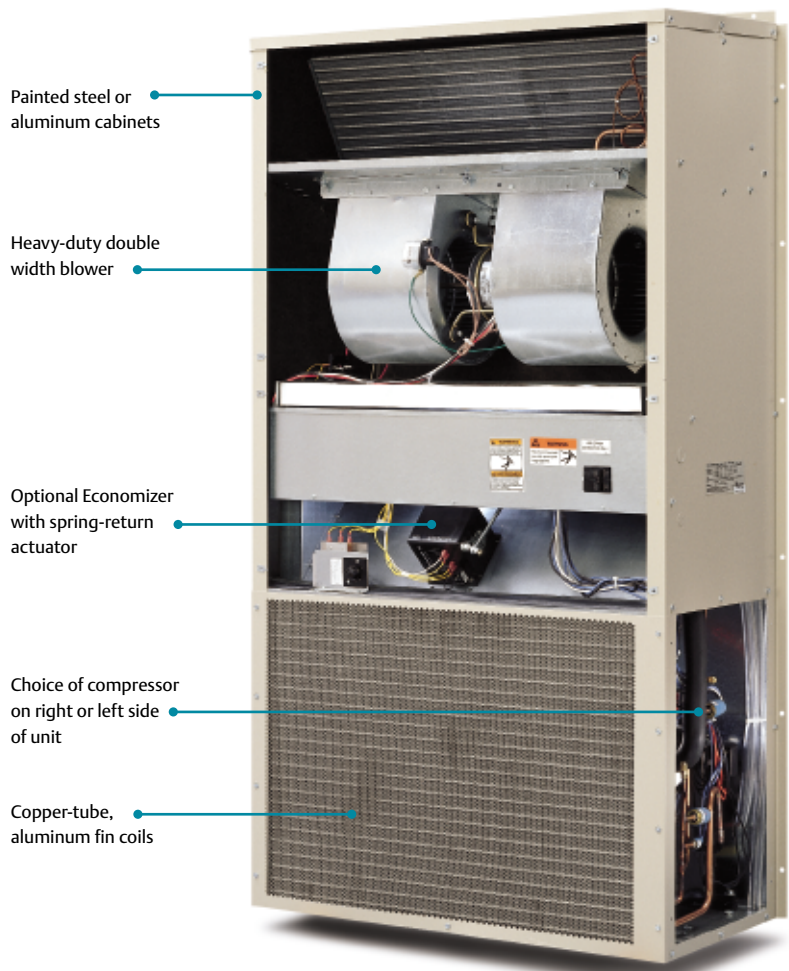
A Perfect Match For Many Critical Applications

In addition to a wide range of telecommunications shelter applications, the Liebert IntelCool2 can be used at virtually any site that requires reliable cooling in a small, lightweight package:

- Cellular
- Radio Paging
- Microwave/Satellite
- Earth Stations
- PCS Services
- Mobile/Modular
- Electronic Equipment
- Structures

Now You Can Custom-Configure Shelter Air Conditioning To Your Exact Needs and Budget

Maximum Flexibility Designed To Meet All Your Shelter Cooling Requirements





Installation time is minimized with Liebert IntelCool's self-contained packaging.



Industry-standard evaporator supply and return openings allow the unit to be placed quickly.

No more wondering why you paid for all those features you don't use...or lamenting that you could have saved a lot of problems if you only added that one little feature when you had it installed.

Compressor

The Liebert IntelCool2 offers a choice of compressors to match your specific reliability needs. A rugged hermetic compressor is standard on the 1.5, 2 and 3 ton units. For applications requiring the highest reliability and lower energy use, a scroll compressor is also available as an option on the 1.5, 2 and 3 ton sizes and is standard equipment on the 4 and 5 ton capacity models. With fewer moving parts and continuous compression, the scroll compressor is 14% more efficient than hermetic units. It operates at an EER level of 11.3 — one of the highest in the industry. The scroll compressor is also ideal in applications where noise is a factor thanks to its low noise and vibration.



Compressors can also be located on either the right or left side of the unit to make it easier to service dual installations.

Fresh Air Damper

If required by your application, this feature allows the introduction of outside air into the shelter by means of a field-adjustable damper.



Controls

For the highest levels of reliability — and to minimize site downtime — critical shelters can be equipped with two Liebert IntelCool 2 units and an autochangeover system that balances runtime and automatically switches from one unit to another unit if required.

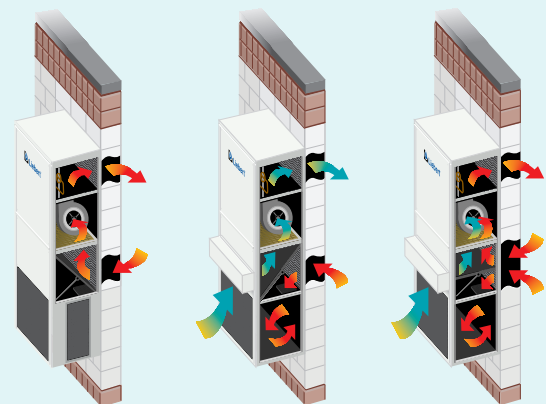
Swift, Simple Installation

When deadlines loom, a simple installation is worth almost anything...mostly because you can't get one at any price. The Liebert IntelCool 2 is the exception to the rule.

However you configure the Liebert IntelCool 2, it comes from the Liebert factory wired, piped, charged with refrigerant and factory-tested as a complete system. Each standard unit is shipped with a Nationally Recognized Testing Laboratory (NRTL) listing. If the wall openings and electric service are in place, the Liebert IntelCool 2 can be installed in as little as 30 minutes. If you need to field replace/upgrade a 3 ton air conditioner to 4 or 5 ton, select the ET3 Series (ET3xx) of Liebert IntelCool 2.

Economizer Option

The Liebert IntelCool 2 can be equipped with an economizer system that uses modulating dampers to draw in filtered, outside ambient air for cooling when the exterior temperature drops below a pre-set level. These outside air temperature settings are field adjustable. The economizer saves energy and reduces component wear.



No Economizer

When outside temperatures are warmer than the inside air, the Economizer is closed and indoor air is recirculated to maintain proper cooling.

Full Economizer

The Economizer takes advantage of low outdoor ambients, drawing on this cool air to maintain indoor temperatures. The result is cooling at lower energy costs, also saving wear on components.

Modulated

In Modulated mode, the Economizer draws cool outside air and recirculates indoor air, reducing compressor run time.

Specifications

60Hz Models 95° F Outdoor Ambient

Model	ET018		ET024		ET036		ET048/ET348	ET060/ET360
	Hermetic	Scroll	Hermetic	Scroll	Hermetic	Scroll	Scroll	Scroll
80° F DB/67° F WB (26.7° C DB/19.4° C WB)								
Total BTU/H	19300	19200	23200	22400	33800	34600	46900	56000
Total kW	5.6	5.6	6.8	6.5	9.9	10.1	13.7	16.4
Sensible BTU/H	17200	17200	19100	18800	26100	26400	38400	41900
Sensible kW	5.0	5.0	5.6	5.5	7.6	7.7	11.2	12.2
75° F DB/62.5° F WB (23.9° C DB/16.9° C WB)								
Total BTU/H	17800	17900	21500	20900	31400	32300	43800	52400
Total kW	5.2	5.2	6.3	6.1	9.2	9.4	12.8	15.3
Sensible BTU/H	16600	16600	18400	18200	25300	25700	37300	40800
Sensible kW	4.8	4.8	5.3	5.3	7.4	7.5	10.9	11.9

Weight									
(Standard Unit) lbs.(kg)	330 (150)	330 (150)	330 (150)	330 (150)	470(213)	470(213)	470(213)	470(213)	470(213)
(Unit w/Economizer) lbs.(kg)	350 (159)	350 (159)	350 (159)	350 (159)	490(222)	490(222)	490(222)	490(222)	490(222)

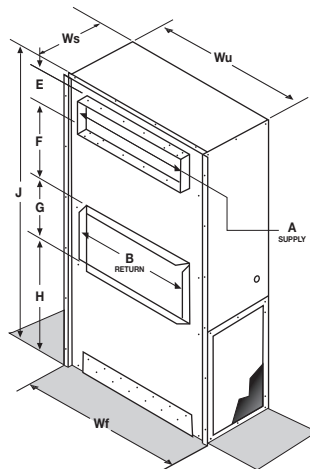
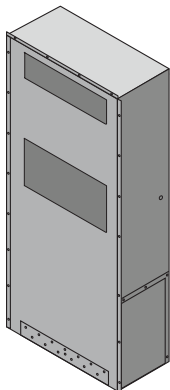
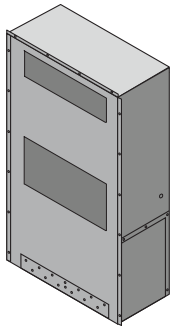
50Hz Models 95° F Outdoor Ambient

Model	ET017		ET023		ET035		ET047/ET347	ET059/ET359
	Hermetic	Scroll	Hermetic	Scroll	Hermetic	Scroll	Scroll	Scroll
80° F DB/67° F WB (26.7° C DB/19.4° C WB)								
Total BTU/H	16500	19200	19900	21600	28800	27700	39800	49000
Total kW	4.8	5.6	5.8	6.3	8.4	8.1	11.6	14.3
Sensible BTU/H	14700	15800	16500	17100	22300	21900	32500	36000
Sensible kW	4.3	4.6	4.8	5.0	6.5	6.4	9.5	10.5
75° F DB/62.5° F WB (23.9° C DB/16.9° C WB)								
Total BTU/H	15300	18000	18400	20100	26800	25900	37200	45900
Total kW	4.4	5.2	5.3	5.8	7.8	7.5	10.9	13.4
Sensible BTU/H	14200	15300	15900	16600	21700	21300	31600	35100
Sensible kW	4.1	4.4	4.6	4.8	6.3	6.2	9.2	10.2

Weight									
(Standard Unit) lbs.(kg)	330 (150)	330 (150)	330 (150)	330 (150)	470(213)	470(213)	470(213)	470(213)	470(213)
(Unit w/Economizer) lbs.(kg)	350 (159)	350 (159)	350 (159)	350 (159)	490(222)	490(222)	490(222)	490(222)	490(222)

Model	Wu	Ws	Wf	A	B	E	F	G	H	J
1.5/2 Ton	37-1/8 (943)	17-3/4 (451)	38-3/4 (984)	20 (508)	20 (508)	8 (203)	20-3/4 (527)	12 (305)	25-1/16 (638)	69-3/4 (1772)
3 Ton	37-1/8 (943)	17-3/4 (451)	38-3/4 (984)	28 (711)	28 (711)	8 (203)	18 (457)	14 (356)	26 (660)	69-3/4 (1772)
4/5 Ton	41 (1041)	22-1/2 (572)	42-3/4 (1086)	30-1/4 (768)	29-7/8 (759)	9-7/8 (251)	30 (762)	15-7/8 (403)	25-25/64 (645)	83 (2108)
4 or 5 Ton Unit with 3 Ton Opening	41 (1041)	22-1/2 (572)	42-3/4 (1086)	28 (711)	28 (711)	8 (203)	18 (457)	14 (356)	37-1/2 (952)	83 (2108)

Wu= unit width Wf=width to flange edges A=height to top of flange



Shaded areas indicate a recommended clearance of 34" (864mm) in front and 30" (762mm) each side or 36" (914mm) each side when mounted adjacent to another unit for component access. For recommended minimum clearances refer to the installation manual.

The ET3 Series of Liebert InteleCool 2 is designed as a replacement/upgrade of a 3 ton air conditioner to a 4 or 5 ton using existing air openings. This allows a unit with more cooling capacity to be installed quickly and easily. No cutting or sawing of the shelter is required.

Liebert Corporation

1050 Dearborn Drive
P.O. Box 29186
Columbus, Ohio 43229
800 877 9222 Phone (U.S. & Canada Only)
614 888 0246 Phone (Outside U.S.)
614 841 6022 FAX

Via Leonardo Da Vinci 8
Zona Industriale Tognana
35028 Piove Di Sacco (PD)
Italy
39 049 9719 111 Phone
39 049 5841 257 FAX

Emerson Network Power Asia Pacific
7/F., Dah Sing Financial Centre
108 Gloucester Rd, Wanchai
Hong Kong
852 25722201 Phone
852 28029250 FAX

liebert.com

24 x 7 Tech Support

800 222 5877 Phone
614 841 6755 (outside U.S.)

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SL-19500 (R10/06) Printed in USA

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