

CTC 2000

AIR COOLED, WATER COOLED

A leader in providing a proper climate for Telecommunications switching systems.

PEACE OF MIND PROTECTION

System Engineers, Office Managers and Data Processing Managers all recognize that telecommunications switching equipment and mainframe computer downtime can be devastating to a company's operation. Temperature, humidity and dust particles are all enemies of electronic components and must be properly controlled to prevent system failure.

LENNOX provides the solution with the **CTC 2000** system which is available in air or water cooled, and monitors your environment 24 hours a day, 365 days a year.

HUMIDIFICATION CONTROL

Wet bulb conditions in the space are controlled in two ways.

1. If the environment is over humidity, the Lennox **CTC 2000** switches into the dehumidification mode. This is accomplished by the system changing blower speeds while continuing to cool. If the space temperature drops below the desired level, Nichrome wire type low watt density heaters are brought on in up to 4 stages to maintain the desired dry bulb.
2. If the environment is under humidity, the **CTC 2000** will automatically switch into the humidification mode, by bringing on the replaceable canister steam generator humidifier.

OPTIMUM PERFORMANCE

CTC 2000 is a microprocessor based

upflow or downflow system that is capable of maintaining your space $\pm 1.8, \pm 3\%$ humidity.

The **CTC 2000** offers the ability for remote communications via an RS port and modem.

The **CTC 2000** cooling circuit is enhanced with a large coil face area,



designed to provide the sensible cooling required by computer rooms.

COMPLETE REDUNDANCY

Maintaining continuous conditioning is the critical element in protecting large computer systems. **CTC 2000** is designed to provide cooling even if one component of the system should fail. Blowers, evaporators and condenser sections are all microprocessor controlled, and the compressors are set up for lead/lag operation ensuring long equipment life.

RELIABILITY & PEACE OF MIND

The **CTC 2000** is designed to meet the most stringent acoustic requirements demanded for a computer room application. All cabinet panels are double wall, with 1", 1 1/2 pound density insulation.

A battery back up maintains systems set points in the event of a power loss or interruption.

Every **CTC 2000** is equipped with primary and secondary drain pans. This provides double protection against any water reaching the sub floor and affecting the computer cables or other system components.

MODULAR CONCEPT DESIGN

A ten (10) ton system with dual remote condensers and the ability to later add up to two 5 ton modules (one per side) giving greater flexibility than any other system of its kind.

Available in upflow or downflow application, the "split modular design" allows for moving the system in tight corridors and for easier insulation.

CONFIGURATION

The air or water cooled **CTC 2000** utilizes either separate remote condensing units per module, or a snap on indoor compressor module attached to separate remote air cooled condensers or fluid coolers.

UNIT MODEL	CTC-060A	CTC-120A	CTC-060W	CTC-120W
TYPE	AIR COOLED		WATER COOLED	
NOMINAL TONNAGE	5	10	5	10
EER	10.1	10.2	11.5	11.4

CAPACITY DATA 24°C (75°F) ENTERING AIR AT 50% RH

Total-Kilocal/Hr	15,685	34,928	15,685	35,135
Sensible-Kilocal/Hr	13,164	28,391	13,164	28,012
Total-BTU/Hr	62,100	125,600	62,100	139,100
Sensible-BTU/Hr	52,100	112,400	52,100	110,900

22°C (71.6°F) ENTERING AIR AT 50% RH

Total-Kilocal/Hr	15,395	30,437	15,395	33,114
Sensible-Kilocal/Hr	13,165	27,734	13,165	28,820
Total-BTU/Hr	60,950	120,500	60,950	131,100
Sensible-BTU/Hr	52,120	109,800	52,120	114,100

AIR FLOW BASED ON 75PA (.3") EXTERNAL STATIC PRESSURE

CFH	4,250	8,500	4,250	8,500
CFM	2,500	5,000	2,500	5,000
Blower Qty/Motor HP	1ea/1	2ea/1	1ea/1	2ea/1

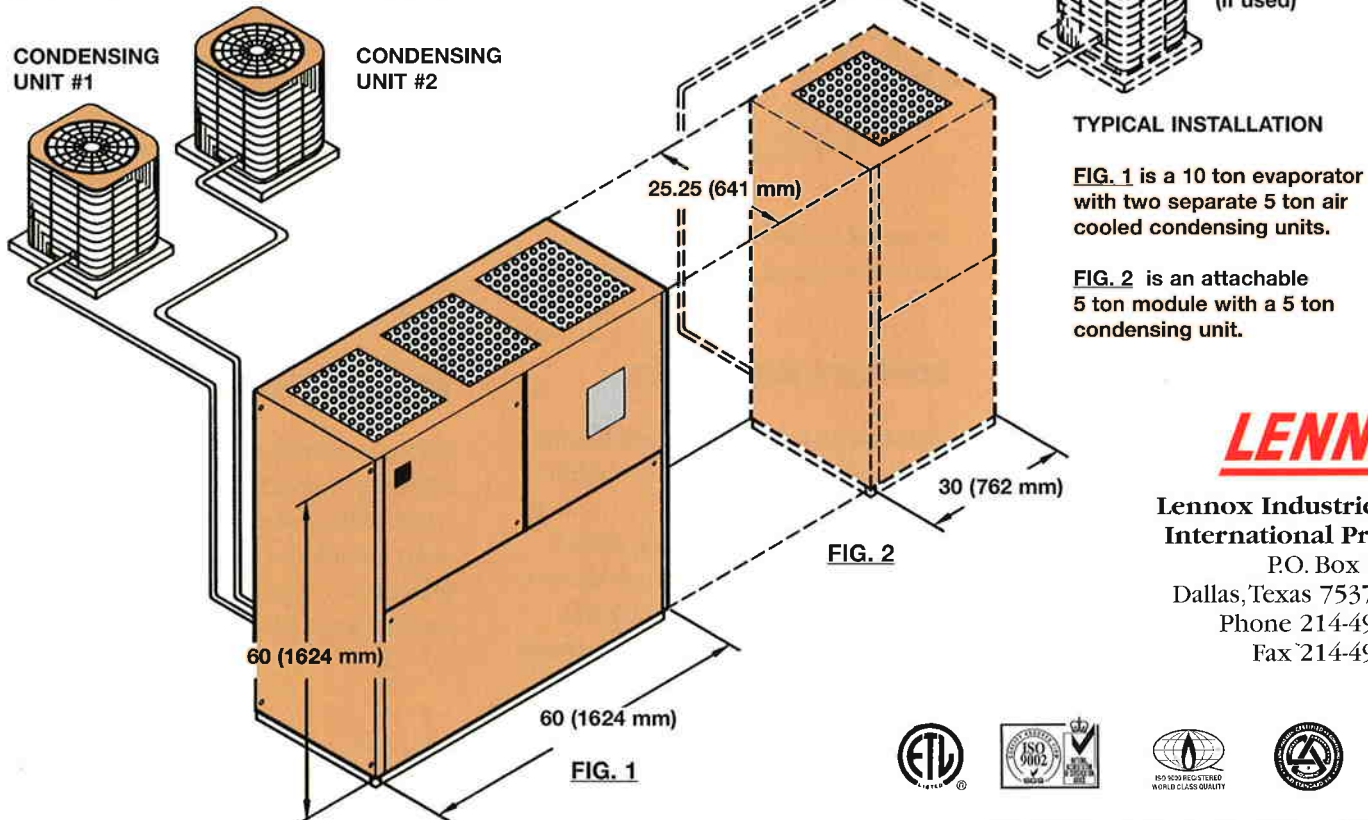
ELECTRIC REHEAT

Kw/Stages	15/1	30/2	15/1	30/2
Capacity BTU/Hr	51,150	102,300	51,150	102,300

HUMIDIFIER - DISPOSABLE STEAM GENERATOR TYPE

Kw/LBS per Hr	3.4/10	3.4/10	3.4/10	3.4/10
Capacity Liters/Hr	37.9	37.9	37.9	37.9

OUTDOOR UNIT MODEL	HS29-683
Compressor type/quantity	Hermetic/1
Width mm (in)	718(28.25)
Depth mm (in)	718(28.25)
Weight kg (lbs)	115(245)
Height mm (in)	946(37.25)



TYPICAL INSTALLATION

FIG. 1 is a 10 ton evaporator with two separate 5 ton air cooled condensing units.

FIG. 2 is an attachable 5 ton module with a 5 ton condensing unit.