OPERATION MANUAL

TYPE

0.50C hp - 0.75C hp - 1C hp - 1.50C hp - 2C hp - 3C hp

0.75F hp – 1F hp - 1.50F hp – 2F hp - 3F hp

1. To guarantee the operation of the unit correctly and safely, please readthe manual carefully before using
2. Please ensure technician to install the unit to keep the unit runningproperly.
3. The unit must be earthed reliably.

This series unit is from 0.3HP to 3HP

SAFETY PRECAUTION

Caution

ELECTRIC SHOCK HAZARD
*THE UNIT MUST BE GROUNDED
*TURN OFF BEFORE SERVICING
*ELETRIFY AFTER WIRING

INJURYHAZARD
DONOTPUTHANDTOTHEFAN

EXPLOSION OR FIRE HAZARD
*DO NOT FIRE THE UNIT.
*KEEP THE REFRIGERANT OF SYSTEM UNDER PRESSURE
*USE ONLY APPROVED REFRIGERANT

OTHERS
*DO NOT COVER THE AIR OUTLET
*DO NOT BLOCK THE DRAIN PIPE

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UNIT INTRODUCTION

LY series Unit is all equipped with unitary refrigeration unit with air cooling condenser. It can be directly applied without debugging by customer.

The unit is installed by piston compressor or scroll compressor of COPELAND with R448 and R449 refrigerant.

Major advantage:

A Optimization design: The same installation as window type air conditioner. Just making a square hole on the wall and install it directly,which can save 60% installation time.

B Silencing technology: The unit adopts hermetic air cooling condenser, fan blade use big tilt angle and pit indent silencing technology which make the structure compact as well as saving the energy and reducingthe noise.

C Adopt tilt type condenser which can make the outline size smaller. D

Anti-corrosion case: The unit uses galvanization steel with high anti-corrosion layer under strictly salt moisture testing, •wI ich enable IF e unit to bear environment.

E Well-chosen components: Main heavy of the unit are used “Danfoss" brands, such as, filter drier and expansion valve with high reliability.

F Environment friendly: Unit is equipped with hermetic compressor with R449A R448A refrigerant.

G Easy operation: It is equipped with automatic defrosting cycle system. Therefore it can be adjusted with customer’s requirement. Defrost frequency is periodic and can be controlled by electric controller. In addition, it can use manual defrost by hot gas.

H Optimization design can integrate the unit. It can make it easy to install without debugging and can reduce the rig-up time and installation cost.

I The removable shell make it easy to adjust the expansion valve.

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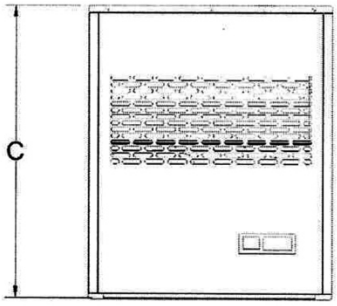
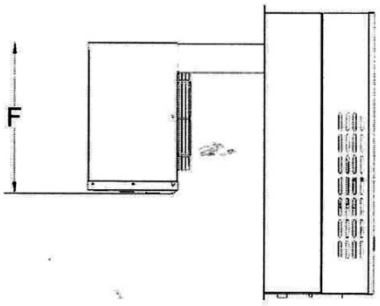
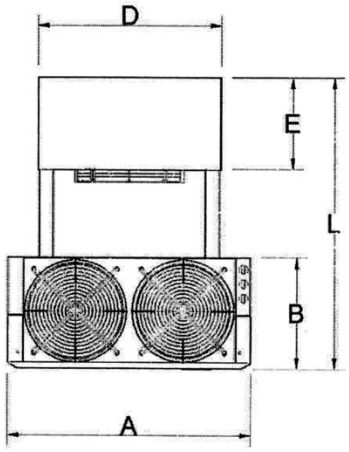
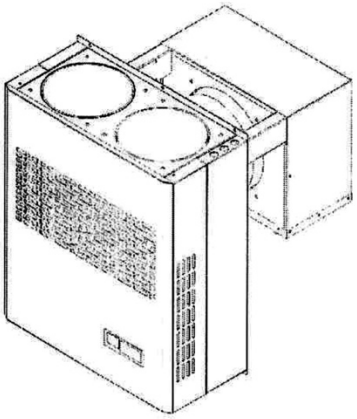
OUTLINE









MODEL		A	B	C	D	E	F	L
CHILLER	FREEZER							
0.50C hp 0.75C hp 1C hp	0.75F hp 1F hp 1.5F hp	460	355	735	370	255	340	850
1.5C hp	1.5F hp	665	315	800	500	255	415	805
2C hp 3C hp	2F hp 3F hp	755	355	800	646	255	340	850

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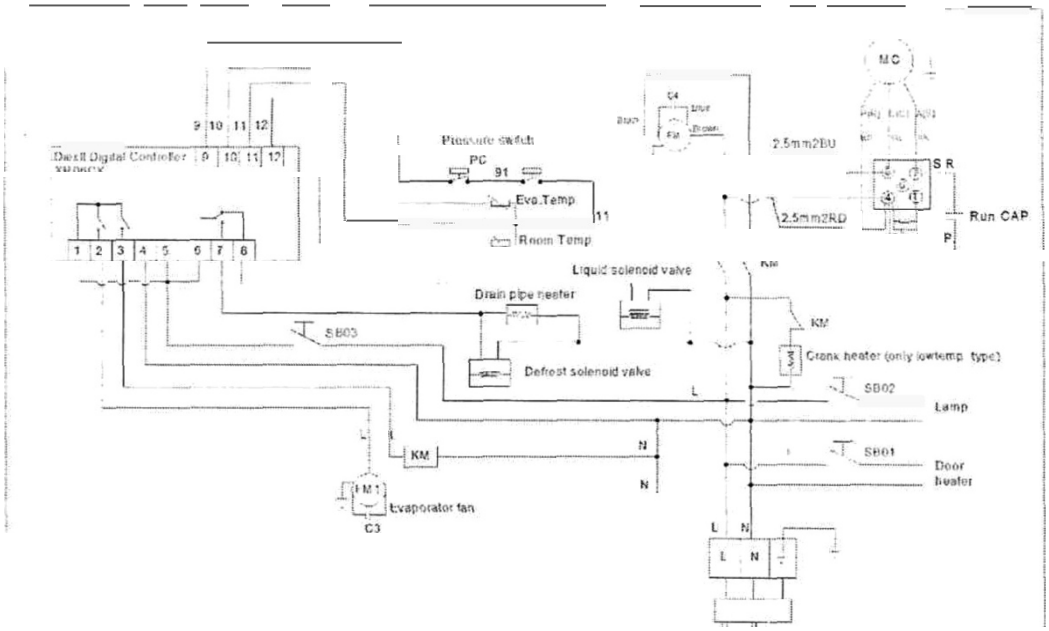
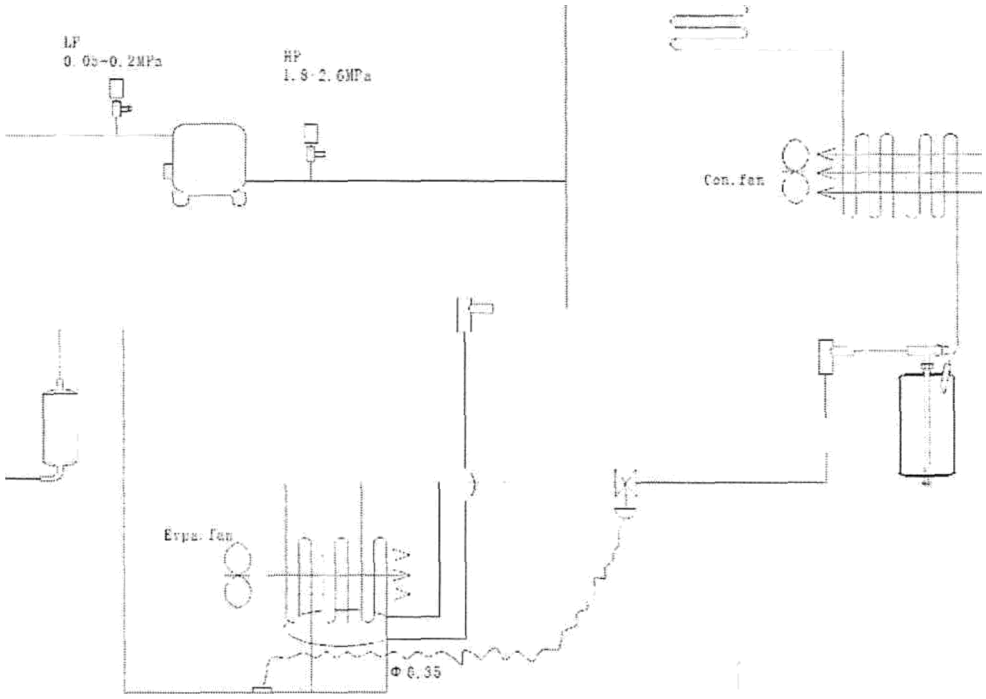
WIRING DRAWING OF UNIT



PRINCIPLE DIAGRAM

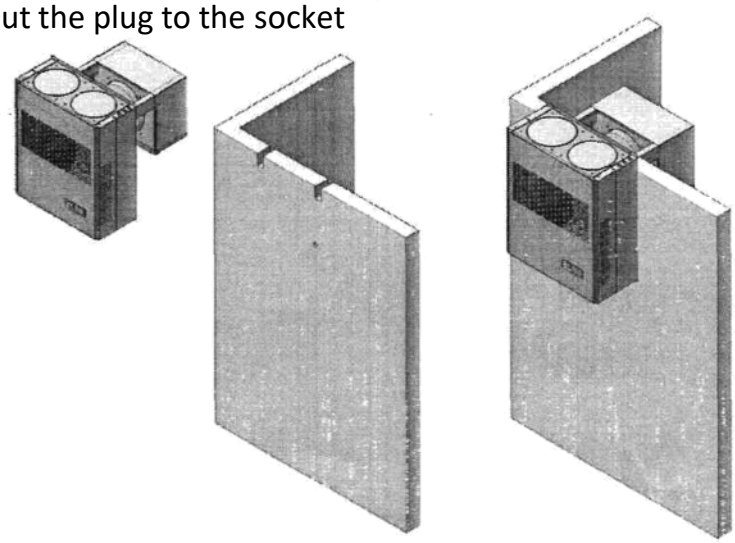


Installation

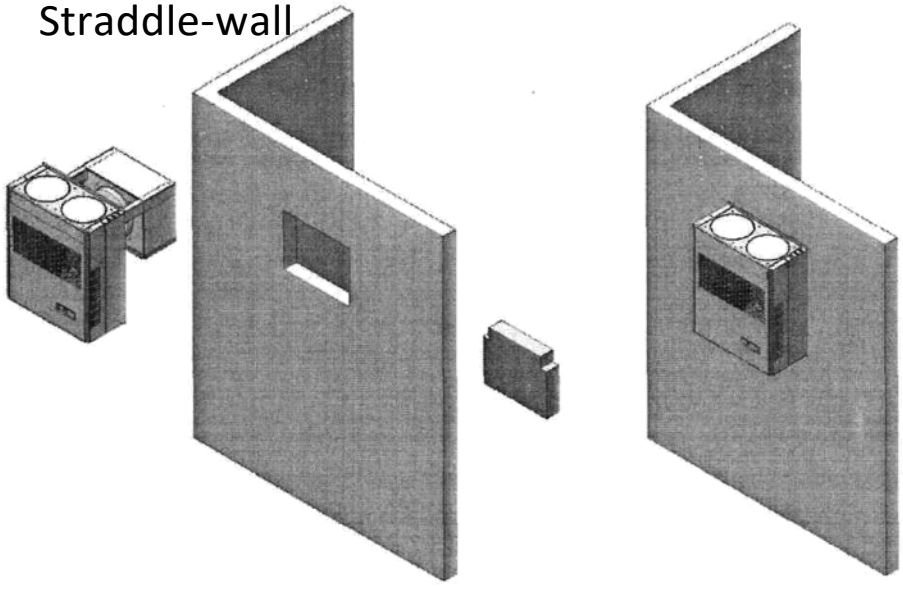
Straddle-wall and through-wall

Requirements for installation Demand a wall at least width 80CM

1. Preparation
   Cut a hole on the wall in accordance with the drawing.
2. Installation
   Put the unit on the hole by the drawing, and fix the bolt on the wall.
3. Wiring the refrigerator lamp.
4. Put the plug to the socket



Straddle-wall



Through-wall

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Operation

1. Check before operation

- Check the unit, make sure that the unit has been installed correctly, the power cable and the ground wire connected reliably.
- This unit with refrigerant.

1.1 PLEASE READ BEFORE USING THIS MANUAL

- This manual is part of the product and should be kept near the instrument for easyand quick reference.
- The instrument shall not be used for purposes different from those describedhereunder. It cannot be used as a safety device.
- Check the application limits before proceeding.

1.2 SAFETY PRECAUTIONS

- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the controller only within the operating.

2. Power on

After power on, the digital controller will display current room temperature. Oneminute delay, the compressor working, while " " indicator on. When evaporator temperature under 40"C, the evaporator fan working, while " " indicator on.

3.Base operation

▼ + ▲ lock & unlock the keyboard.

SET + ▼ To enter in programming mode.

SET + ▲ To return to the room temperature display.

3.1How to change the room temperature.

- Push the SET key for more than 2 seconds to change the Set point value;
- The value of the set point will be displayed and the LED starts blinking;
- To change the set value push the up or down arrows within 10s.
- To memories the new set point value push the SET key again or wait 10s.
- Then press "SET+DOWN" more than 3 seconds and set HY. The range of room temperature is "SET" "SET+HY"

3.2 HOW TO START A MANUAL DEFROST

Push the DEF key for more than 2 seconds and a manual defrost will siart.

3.3 How to set defrost cycles

Press "SET+DOWN" more than 3 seconds and set ID. (0 99h)

Determines the time interval between the beginning of two defrost cycles.

We advise customer to set the figure according room circumstance, such as humidity,room temperature and so on.

	DEFAULT SETTING VALUES		
- **			DEFAULT
REGULAT	ION		
SET			2(-18)
Hy	Differential	0.1 + 25°C/1 - 45°F	2.0°C
LS	Minimum Set Point	-55°C:-SET/-67°F›—SET	-10 °C (-40°Cg
US	Maximum Set Point	SET+99°C/ SET:-210°F	30 °C
ot	First probe calibration	-9.9+9.9°C/-18:—18°F	0.0
P2	Second probe presence	n - Y	y
oE	Second probe calibration	-9.9+9.9°C/-18+18°F	0.0
od	Outputs activation delay at start up	0 + 99 min	1
AC	Anti-short cycle delay	0 + 50 min	4
Cy	Compressor ON time faulty probe	0 + 99 min	15
Cn	Compressor OFF time faulty robe	0 + 99 min	30
DISPLAY			
CF	Measurement units	°C - °F	°C
rE	Resolution (only for °C	dE - in	dE
Ld	Default Display	P1 - P2 - SP	P1
dy	Display delay	0 + 15 min	0
DEFROS	**T**		
td	Defrost type	EL - in	In
dE	Defrost termination temperature	-50+50°C/-58+122°F	15 °C
id	Interval between defrost cycles	0 :- 99 hours	3
Md	Maximum length for defrost	0 + 99 min.	30
dd	Start defrost delay	0 + 99 min.	0
dF	Display during defrost	rt - in — SP — dF	dF
dt	Drio time	0 + 99 min	5
dP	Defrost at power-on	y - n	N
FANS			
FC	Fans operating mode	cn — on — cY — oY	On
Fd	Fans delay after defrost	0 + 99 min	2
FS	Fans stop temperature	-50+50°C/-58+122°F	40'C
ALARMS			
AU	Maximum temperature alarm	ALL+99°C / ALL+210°F	50 °C
AL	Minimum temperature alarm	-55°C*ALU/-67°F+ALU	-50 °C
Ad	Temperature alarm delay	0 + 99 min	15
dA	Exclusion of temperature alarm at startup	0 + 99 min	90
DIGITAL	INPUT		
iP	Digital input polarity	cL- oP	oP
iF	Digital input configuration	EL — bL — dr - dF — Li — db	BA
di	Digital input delay	0 + 99 min	0
dC	Compressor and fan status when open door	no /Fn / cP / Fc	FC
rd	Regulation with door open	n - Y	Y
OTHER			
d1	Thermostat probe display	Read Only	---
d2	Evaporator probe display	Read Only	---
Pt	Parameter code table	Read Only	---
rL	Firmware release	Read Only	---

Note: () Are the low back units' sets.

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