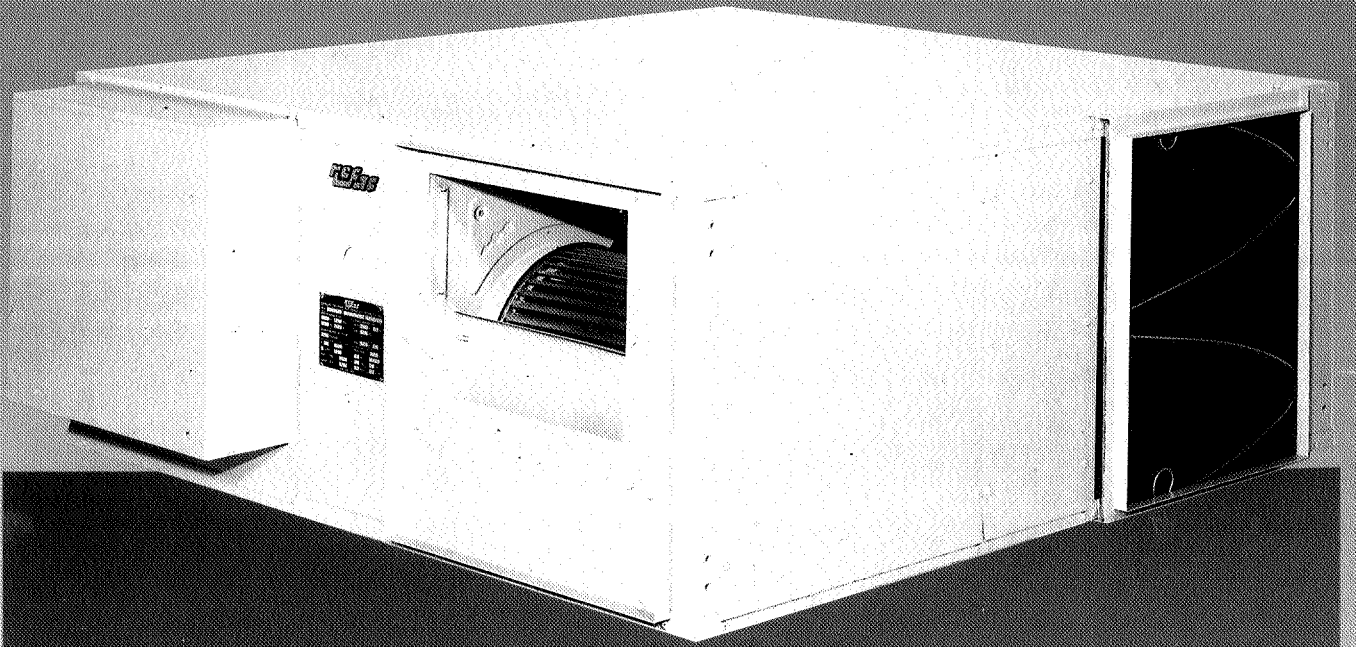


# REFAC

airconditioning

FLATAIR FLL



## FLATAIR FLL

### APPLICATION

The Flatair aircooled airconditioner has been designed for application in small to medium sized airconditioning installations.

Designed for ventilation, cooling and dustfiltration. An electric or hot water heater can be provided at additional cost.

### OPERATIONS LIMITS

On cooling the air inlet condition may vary widely. The allowable limits are shown in the cooling capacity graph (provided on request).

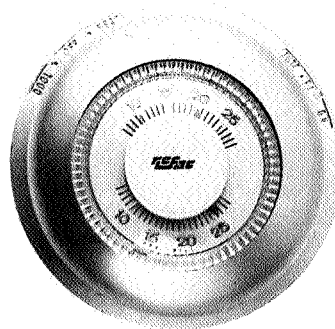
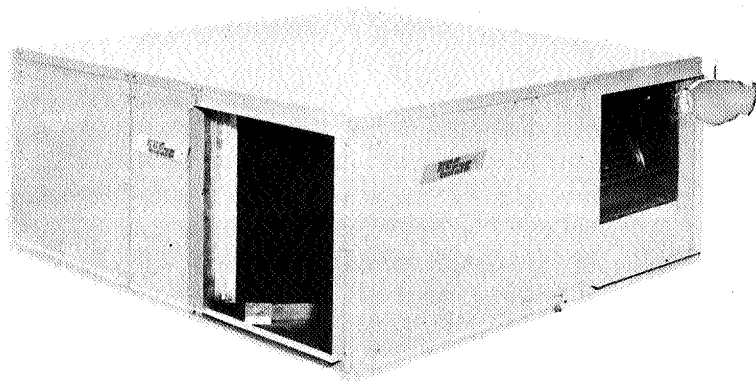
The maximum and minimum allowable condenser inlet temperatures are between 45° and 12°C. For application at ambient temperatures down to -10°C the units needs to be provided with a so called «winter control».

The compressor starting is limited to a maximum of 10 times per hour in order to prevent damage caused by overheating of the compressor.

### FEATURES

The Flatair airconditioning units feature:

- Compact design, small dimensions and a special low profile.
- Internal as well as external installations possibilities.
- Versatility in duct connection possibilities. Return and supply duct connecting are 90° changeable.
- Centrifugal fans on the condenser side with sufficient static pressure available for the use of air-ducts. This feature makes it possible to install the condenser in a ceiling void or basement.
- Low sound level by using overdimensioned fan.
- 24 V control circuit.
- Remote control with all function possibilities: ventilation, cooling and heating with a 24 V thermostat.



Remote control

### OPTIONALS

- Electrical heaters.
- Hot water heaters.
- Condensation pressure control.
- Winter control.

TECHNICAL DATA		FLL-2	FLL-3	FLL-5	FLL-7
Cooling capacity*.....	Kw.	7.4	10.2	15.6	20.8
Cooling capacity*.....	Frig/h.	6,400	8,800	13,400	17,900
Flow rate max/min. indoor unit.....	m <sup>3</sup> /h.	1,750/1,400	2,500/1,800	4,000/3,000	4,600/3,400
Available pressure: max. (1).....	mm. w.g.	9	14	14.4	17
Flow rate: max/min. outdoor unit.....	m <sup>3</sup> /h.	2,200/1,700	3,000/2,500	6,000/5,000	6,500/5,700
Available pressure: max. (1).....	mm. w.g.	5	11	13	8.5
Total power consumption (nominal) cooling.....	Kw.	3.62	4.27	7.37	9.37
Intensity: 220/380 V.....	A	18.7	18.1/10.6	31/17.4	35/20.4
Voltage: (50 Hz + neutral + ground).....	v/f.	220/I	220/380-III	220/380-III	220/3 80-III
Net weight.....	Kg.	150	175	250	260
Dimensions: Height.....	mm.	450	500	610	610
Width.....	mm.	1,100	1,250	1,500	1,500
Length.....	mm.	1,050	1,170	1,500	1,500

\* Air inlet temperature at the evaporator: 27° C D.B.; 19° C W.B.

\* Air inlet temperature at the condenser: 35° C D.B.

(1) With admissible minimum flow.

To obtain exact capacities consult the technical handbooks.

(Subjet to change without notice).



MADE BY

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