

Airwell

PACKAGED AIR CONDITIONERS

VERTICAL UNITS

X 2450

X 3250

- air cooled (**AR**)
- water cooled (**AO**)



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PRODUCT CODE NUMBERS

This manual covers the following basic products.
(For units fitted with options; please refer to the maker's plate) :

| Models | VOLTAGE NON INTERCHANGEABLE | | PRODUCT CODE NUMBERS | | | |
|---|-----------------------------|---------------------|----------------------|------------------|----------------------|-----------------------|
| | | | Indoor unit | | Outdoor unit | |
| | 3N ~ 400 V - 50 Hz | 3N ~ 230 V - 50 Hz* | X 2450 R-407C | X 3250 R-407C | X 2450 R-407C | X 3250 R-407C |
| AR with air cooled separated condenser | • | • | 7XU022078 | 7XU022079 | 7XU031027 (UC73A) | 7XU031028 (UC103A) |
| AO wated water | • | • | 7XU012029 | 7XU012030 | – | – |

* Installation regulated in France

The information contained in these instructions are subject to modification without prior notice.

INTRODUCTION

" When the HCFC fluids are replaced, these appliance have been optimized to operate with the R-407C coolant which contains no chlorine and has no effect on the ozone layer."

1. DEFINITION

The **X 2450** and **X 3250** packaged air conditioners are presented :

- Single packaged for the **WATER** cooled models (**AO**),
- with a separate outdoor condensing unit for the **AIR** cooled models (**AR**).

The air intake and discharge is provided :

- either directly by air intake grilles and a discharge plenum (accessory),
- or by ducts for intake and/or discharge, to be connected to the connection flanges (accessory).

This well-finished, single packaged unit combines many features such as easy installation, high efficiency, quiet operation and reliability, which make it well suited for air conditioning, dehumidification and air filtering in offices, stores and industrial premises.

These packaged air conditioners can be equipped with the following accessories :

- Electric heater (integrated),
- Hot water coil,
- A 4-stage thermostat to be integrated,
- A 4-stage remote control thermostat,
- A double-deflection discharge plenum,
- 90% gravimetric air filters.

They benefit from 30 years experience and are perfectly suited to working with :

- Wasted water; its consumption being reduced to a minimum by a pressure valve (included in the **AO**-wasted water model).
- Recycled water; supplied by a cooling tower or an outdoor heat exchanger.
- Outside air with the possibility of operating at very low temperatures (down to -10°C with the "ALL SEASONS" option on the **AR** models).

2. MAIN DATA

- Cabinet with reduced floor dimensions.
- Standard ventilation :
Basic with drive motor and transmission by adjustable pulley/belt.
- "High ventilation equipment available as option providing a greater available pressure.
- Vertical blowing with duct or plenum (accessory).
- Two air intake possibilities :
On the front with grilles or on the rear with ducts, with the rear air intake (accessory).
- Heat lagged filters M1, regenerable, mounted on metal frame : 2 efficiency ratings, 83 ou 90% gravimetric.

- Electrical, hydraulic and refrigerant connections on right or left.
- Cooling by wasted water with pressure controlled valve or by recycled water without valve.
- Possibility of running in cooling mode down to an outdoor temperature of -10° C for the **AR** models with the "ALL SEASONS" accessory.
- Two heating possibilities (accessories) :
 - basic built-in
(see 14, "CONTROLS AND REGULATION"),
 - to be built-in as an accessory with 4 stages and a neutral zone,
 - with remote control, as an accessory, with 4 stages and a neutral zone.
- Two control possibilities (accessory):
Integrated electrical heating coils or hot water heating coils.
- Two refrigerant connection pipe possibilities (**AR** models): up to 25 m maximum with factory pre-charged pipes (accessory) or with pipes brazed and charged on site (set of female valves supplied as an accessory for connections up to 45 m).

3. DESCRIPTION

3.1 Bodywork

- Panels and side faces made of profiled sheet steel covered with enamel finish, baked in a high temperature oven.
- Intake grilles made of modular elements in flameproof, shock resistant polystyrene, classified UL-VO according to UL94.

3.2 Insulation and protection

- Thermal and acoustic insulation of the unit.
- Watertight unit base for the possible collection of condensates or abnormal overflowing (e.g. condensate drain tray clogging).

3.3 Refrigerant circuit

• All models

- Simple refrigerating circuit, each including :
- Hermetic type compressor fitted with thermal and electrical protections, linked to a factory sealed and brazed cooling circuit.
 - Pressostats and high and low pressure measurement Schrader valves.
 - Copper tube evaporator with aluminium fins and anti-corrosion protected condensate tray.

• AR / AO Model

- Reserve liquid receiver.
- Thermostatic pressure reducer with pressure balancing.
- Liquid indicator and valve on liquid line.

• **AO Model**

- Coaxial condenser with counter flow circulation, equipped with finned copped tube in a steel cover.
- Pressure valve on the water inlet for reducing water consumption to a minimum (wasted water model).
- On request, the unit is supplied without a pressure valve but with an additional Schrader valve connection for independent control of the water flow (recycled water model).

• **AR Model**

- Shut off valves on indoor unit and outdoor condensing unit (UC) for refrigerant pipes.
- Outdoor condensing unit with copper tube and aluminium fins.

3.4 Ventilation / Filters

- Blower equipped with two, direct drive, centrifugal fans with double air intakes.
- Standard 3 speed fan motor (VS) switchable from the electrical terminal box (refer to electrical connections).
- Specific “High Speed Ventilation” (FV) motor available as an optional extra.
- Cooling fan assembly mounted on a sliding chassis with anti-vibration seals for easy maintenance.
- M1 flame retardant re-usable filters, made of synthetic fibres, with a metal frame and protective grille.
- UC single phase, 400 V/230 V dual voltage switchable fan motors.
- Ventilation coil for UC with direct drive and low speed of rotation.

3.5 Electricity / Safety

Manufactured in large series, these air conditioners undergo numerous controls during fabrication and are systematically tested before delivery. Safety devices effectively protect this equipment :

- Protection of the compressor with fuses, thermal relay and electronic anti- short cycle timer.
- Protection of the integrated heater (accessory) with fuses and dual automatic and manual reset overload protection devices.
- Fuses on the control circuit.
- Protection of the fan motors (VS and FV) by fuses and an internal safety device.
- Low pressure pressostats with automatic reset and high pressure pressostats with manual reset.
- Solenoid shut off valve on the liquid line.

- Basic casing resistors on all models.
- Protection of the UC fan motor with internal thermostat.
- Mains power supply 3 N ~ 400 V – 50 Hz as standard and 3 ~ 230 V – 50 Hz as an option.
- Terminal block for single phase 230 V power supply to the control circuit with a 400 V / 230 V transformer (not supplied) if the neutral wire is not available.

3.6 Control / Regulation

- Fascia strip grouping the controls (Main “ON/OFF” switch with control light – Heating “ON/OFF” and Cooling “ON/OFF”) and the regulation (inverting thermostat).
- Automatic cooling/heating with neutral zone thermostat supplied with the integrated electric heater accessory.
- Anti-short cycle time delay on compressor(s).
- Location available in the electrical compartment to house Staëfa-Klima type regulation modules (not pre-wired, not supplied).
- “ALL SEASONS” system (accessory).

4. AFTER SALES SERVICE / MAINTENANCE

CAUTION

Procedures for working on the cooling circuit, and the technical characteristics, are different from the R22. Consult the corresponding instructions and follow the recommendations when carrying out any work.

Access to the air filters is from the front, after removal of the air intake grille.

All the refrigeration, electrical and ventilation devices are easily accessible from the front of the unit, after removal of the front panels.

The design and manufacturer are french meaning that spare parts availability is fast and easy.

Every accessory is supplied with fitting instructions (and adjustment instructions, if necessary).

The technical data, installation instructions, maintenance and operation instructions, exploded views and spare parts lists are available on request .

TECHNICAL DATA

| Models | | | X 2450 | | X 3250 | | |
|-----------------------------------|----------------------------|---|------------------|---|----------------|--|-----------------|
| | | | AR | AO | AR | AO | |
| REFRIGERANT R-407C | | | g | 7600 | 5220 | 9800 | 6615 |
| NOMINAL COOLING CAPACITY (1) | | | W BTU/Hr | 19800 67600 | 23000 78500 | 29000 99000 | 32400 110550 |
| FLOW | TREATED AIR | Nominal Mini./maxi. | m³/h | 4500 3600/5400 | | 5800 4600/7000 | |
| | FRESH AIR | Nominal (with jet accessory) | m³/h | 420 | | 500 | |
| STATIC PRESSURE AVAILABLE (2) | | Standard equipment High ventilation equipment | daPa daPa | 0/20 4/40 | | 0/25 4/40 | |
| POWER INPUT VENTILATION | | Standard equipment Mini./Maxi. High Ventilation equipment Mini/Maxi. | W W | 500/1100 800/1800 | | 700/1800 1100/2200 | |
| SOUND PRESSURE INDOOR UNIT (3) | | Normal speed | dBA | 59 | 58 | 65 | 64 |
| ELECTRIC POWER SUPPLY | | Nominal voltage Voltage range | V | 3N~400 V - 50 Hz 360/440 | | | |
| | | Total power input (1) | W | 8900 | 7100 | 12630 | 9800 |
| WATER CIRCUIT (1) | Wasted water | Flow | m³/h | 1 | | 1,7 | |
| | | Head loss | kPa | 42 | | 40 | |
| OUTDOOR CONDENSING UNIT (UC) | | Type Number Air flow unit Power input unit Sound pressure unit | m³/h W dBA | UC 73A 1 7000 580 56 | | UC 103A 1 10000 590 56 | |
| COULISAGES | INDOOR UNIT | W x D x H net W x D x H packed Weight net packed | mm mm kg | 1300 x 600 x 1840 1600 x 670 x 2080 | | 1530 x 600 x 1840 1730 x 700 x 2060 | |
| | DISCHARGE PLENUM | W x D x H net W x D x H packed Weight net packed | mm mm kg | 1300 x 600 x 350 1600 x 670 x 445 20/25 | | 1530 x 600 x 350 1600 x 670 x 445 21/26 | |
| | OUTDOOR CONDENSING (UC) | W x D x H net W x D x H packed Weight net packed | mm mm kg | 1141 x 885 x 831 1160 x 950 x 1000 93/115 | | 1546 x 885 x 893 1565 x 950 x 1000 130/160 | |
| OPTIONS | | "High Ventilation" equipment Power supply 3~230 V - 50 Hz (5) | | • • | | • • | |
| ACCESSORIES | | Electrical heating integrated/duct Hot water coil Front discharge plenum (1 and 3-way) Rear intake duct outlet 4-stage thermostat Remote fault transfer "All seasons" system Set of female pipe valves Refrigerating connections (max. 25M) | kW (6) kW | 18 38,5 • • • • • • - | | 22,5 50 • • • • • - | |

(1) International standard ISO 51-51 conditions

Type A : 27°C/19 wet bulb. - Outside air 35°C/24°C wet bulb.

Wasted water : inlet +15°C - Recycled water inlet/outlet : 29/35°C.

(2) Pressure in air flow range at nominal voltage, without accessories.

(3) Total sound pressure in dBA (4m) under nominal conditions in a room of 1000 m³ (reverberation 0.83 sec)

(4) Total sound pressure in dBA (4m) under nominal conditions in open space on reflecting surface.

(5) Voltage range minimum 198V maximum 242 V (the other electrical values are not changed)

(6) Hot water coil 90/80°C - Treated air 20°C - 50% with nominal air flow.

COOLING PERFORMANCES

Model X 2450 AR

AIR FLOW : 4.500 m³/h

| Air temperature at evaporator inlet (°C) | | | Air temperature at condenser inlet (°C) | | | | | | | |
|--|----|----|---|--------------|--------------|--------------|--------------|--------------|--------------|-------|
| BH | BS | | 15 | 20 | 25 | 30 | 35 | 40 | 45 | |
| 15 | PT | W | 20469 | 19726 | 18984 | 18241 | 17499 | 16757 | 16014 | |
| | PA | W | 6563 | 6961 | 7358 | 7756 | 8154 | 8551 | 8949 | |
| | 21 | PS | W | 12061 | 12323 | 12586 | 12848 | 13110 | 13373 | 13635 |
| | 23 | | | 13610 | 13968 | 14265 | 14563 | 14860 | 15158 | 15455 |
| | 25 | | | 15281 | 15613 | 15945 | 16278 | 16610 | 16757 | 16014 |
| | 27 | | | 19922 | 19726 | 18984 | 18242 | 17499 | 16757 | 16014 |
| | 29 | | | 20469 | 19726 | 18984 | 18242 | 17499 | 16757 | 16014 |
| | 31 | | | 20469 | 19726 | 18984 | 18242 | 17499 | 16757 | 16014 |
| | PT | W | 21733 | 20961 | 20189 | 19417 | 18645 | 17872 | 17100 | |
| 17 | PA | W | 6611 | 7017 | 7423 | 7829 | 8235 | 8641 | 9047 | |
| | 21 | PS | W | 11450 | 11699 | 11948 | 12197 | 12446 | 12695 | 12944 |
| | 23 | | | 13165 | 13452 | 13738 | 14024 | 14310 | 14596 | 14883 |
| | 25 | | | 14881 | 15204 | 15528 | 15851 | 16175 | 16498 | 16822 |
| | 27 | | | 16596 | 16957 | 17318 | 17678 | 18645 | 17872 | 17100 |
| | 29 | | | 20750 | 20750 | 20189 | 19417 | 18645 | 17872 | 17100 |
| | 31 | | | 21578 | 20961 | 20189 | 19417 | 18645 | 17872 | 17100 |
| | PT | W | 23008 | 22206 | 21404 | 20602 | 19800 | 18998 | 18196 | |
| | PA | W | 6696 | 7115 | 7533 | 7952 | 8370 | 8789 | 9207 | |
| 19 | 21 | PS | W | 8979 | 9174 | 9370 | 9565 | 9760 | 9955 | 10150 |
| | 23 | | | 10801 | 11036 | 11270 | 11505 | 11740 | 11975 | 12210 |
| | 25 | | | 12622 | 12897 | 13171 | 13446 | 13720 | 13994 | 14269 |
| | 27 | | | 14444 | 14758 | 15072 | 15386 | 15700 | 16014 | 16328 |
| | 29 | | | 16266 | 16619 | 16973 | 17326 | 17680 | 18034 | 18196 |
| | 31 | | | 18087 | 18480 | 21380 | 20602 | 19800 | 18998 | 18196 |
| | PT | W | 24363 | 23522 | 22680 | 21839 | 20997 | 20156 | 19314 | |
| | PA | W | 6994 | 7425 | 7856 | 8287 | 8718 | 9149 | 9580 | |
| | 23 | PS | W | 8081 | 8257 | 8432 | 8608 | 8784 | 8959 | 9135 |
| 21 | 25 | | | 10013 | 10230 | 10448 | 10666 | 10883 | 11101 | 11319 |
| | 27 | | | 11945 | 12204 | 12464 | 12724 | 12983 | 13243 | 13503 |
| | 29 | | | 13876 | 14178 | 14480 | 14781 | 15083 | 15385 | 15686 |
| | 31 | | | 15808 | 16152 | 16495 | 16839 | 17183 | 17526 | 17870 |
| | 33 | | | 17740 | 18125 | 18511 | 18897 | 19282 | 19668 | 20228 |
| | PT | W | 25729 | 24848 | 23967 | 23086 | 22205 | 21324 | 20443 | |
| | PA | W | 7346 | 7789 | 8233 | 8676 | 9120 | 9564 | 10007 | |
| | 25 | PS | W | 7022 | 7175 | 7327 | 7480 | 7632 | 7785 | 7938 |
| | 27 | | | 9065 | 9262 | 9459 | 9656 | 9853 | 10050 | 10247 |
| 23 | 29 | | | 11108 | 11349 | 11591 | 11832 | 12073 | 12315 | 12556 |
| | 31 | | | 13150 | 13436 | 13722 | 14008 | 14294 | 14580 | 14866 |
| | 33 | | | 15193 | 15524 | 15854 | 16184 | 16514 | 16845 | 17175 |

BS = Dry bulb temperature (°C)

BH = Wet bulb temperature (°C)

PT = Total cooling capacity (W)

PA = Power absorbed by the compressor (W)
(without fan motor)

PS = Sensitive cooling capacity (W)

Power absorbed by the indoor fan = 530 W.

WORKING RANGE

| INDOOR TEMPERATURE °C | | Thi | 13 | MINIMUM TEMPERATURE | INDOOR TEMPERATURE °C | | Thi | 19 | 22 | MAXIMUM TEMPERATURE | | |
|-----------------------|---------------|-----|-----|---------------------|------------------------|-----|-----|----|----|---------------------|--|--|
| | | Tsi | 17 | | OUTDOOR TEMPERATURE °C | | Tsi | 30 | 32 | | | |
| OUTDOOR TEMPERATURE | Basic equ. °C | Tse | +19 | | | Tse | 50 | 47 | | | | |
| with TTS* | °C | Tse | -10 | | | | | | | | | |

* with accessory "All seasons" system

COOLING PERFORMANCES

Model X 3250 AR

AIR FLOW : 5.800 m³/h

| Air temperature at evaporator inlet (°C) | | | Air temperature at condenser inlet (°C) | | | | | | | |
|--|----|----|---|--------------|--------------|--------------|--------------|--------------|--------------|-------|
| BH | BS | | 15 | 20 | 25 | 30 | 35 | 40 | 45 | |
| 15 | PT | W | 29981 | 28893 | 27806 | 26718 | 25631 | 24543 | 23456 | |
| | PA | W | 9214 | 9772 | 10330 | 10888 | 11446 | 12005 | 12563 | |
| | 21 | PS | W | 17332 | 17709 | 18085 | 18462 | 18839 | 19216 | 19592 |
| | 23 | | | 19690 | 20118 | 20546 | 20974 | 21402 | 21830 | 22258 |
| | 25 | | | 22048 | 22527 | 23006 | 23486 | 23965 | 24543 | 23456 |
| | 27 | | | 29180 | 28893 | 27806 | 26718 | 25631 | 24543 | 23456 |
| | 29 | | | 29981 | 28893 | 27806 | 26718 | 25631 | 24543 | 23456 |
| | 31 | | | 29981 | 28893 | 27806 | 26718 | 25631 | 24543 | 23456 |
| 17 | PT | W | 31832 | 30701 | 29570 | 28439 | 27308 | 26177 | 25046 | |
| | PA | W | 9281 | 9851 | 10421 | 10991 | 11561 | 12131 | 12701 | |
| | 21 | PS | W | 16382 | 16738 | 17094 | 17450 | 17806 | 18162 | 18519 |
| | 23 | | | 18894 | 19305 | 19716 | 20126 | 20537 | 20948 | 21359 |
| | 25 | | | 21406 | 21872 | 22337 | 22803 | 23268 | 23733 | 24199 |
| | 27 | | | 23919 | 24439 | 24959 | 25479 | 27308 | 26177 | 25046 |
| | 29 | | | 30392 | 30392 | 29570 | 28439 | 27308 | 26177 | 25046 |
| | 31 | | | 31604 | 30701 | 29570 | 28439 | 27308 | 26177 | 25046 |
| 19 | PT | W | 33698 | 32524 | 31349 | 30175 | 29000 | 27826 | 26651 | |
| | PA | W | 9400 | 9988 | 10575 | 11163 | 11750 | 12338 | 12925 | |
| | 21 | PS | W | 12751 | 13028 | 13306 | 13583 | 13860 | 14137 | 14414 |
| | 23 | | | 15419 | 15754 | 16090 | 16425 | 16760 | 17095 | 17430 |
| | 25 | | | 18087 | 18480 | 18874 | 19267 | 19660 | 20053 | 20446 |
| | 27 | | | 20755 | 21206 | 21658 | 22109 | 22560 | 23011 | 23462 |
| | 29 | | | 23423 | 23932 | 24442 | 24951 | 25460 | 25969 | 26478 |
| | 31 | | | 26091 | 26658 | 27226 | 30175 | 29000 | 27826 | 26651 |
| 21 | PT | W | 35684 | 34451 | 33219 | 31986 | 30754 | 29521 | 28289 | |
| | PA | W | 9818 | 10424 | 11029 | 11634 | 12239 | 12844 | 13449 | |
| | 23 | PS | W | 11425 | 11673 | 11921 | 12170 | 12418 | 12667 | 12915 |
| | 25 | | | 14254 | 14564 | 14874 | 15184 | 15494 | 15803 | 16113 |
| | 27 | | | 17083 | 17455 | 17826 | 18197 | 18569 | 18940 | 19312 |
| | 29 | | | 19913 | 20346 | 20778 | 21211 | 21644 | 22077 | 22510 |
| | 31 | | | 22742 | 23236 | 23731 | 24225 | 24720 | 25214 | 25708 |
| | 33 | | | 25571 | 26127 | 26683 | 27239 | 27795 | 28351 | 28907 |
| 23 | PT | W | 37684 | 36394 | 35103 | 33813 | 32522 | 31232 | 29941 | |
| | PA | W | 10312 | 10935 | 11557 | 12180 | 12803 | 13426 | 14048 | |
| | 25 | PS | W | 9864 | 10078 | 10293 | 10507 | 10721 | 10936 | 11150 |
| | 27 | | | 12856 | 13135 | 13415 | 13694 | 13974 | 14253 | 14533 |
| | 29 | | | 15848 | 16192 | 16537 | 16881 | 17226 | 17570 | 17915 |
| | 31 | | | 18840 | 19249 | 19659 | 20068 | 20478 | 20888 | 21297 |
| | 33 | | | 21832 | 22306 | 22781 | 23256 | 23730 | 24205 | 24679 |

WORKING RANGE

| INDOOR TEMPERATURE °C | | Thi | 13 |
|-----------------------|---------------|-----|-----|
| | | Tsi | 17 |
| OUTDOOR TEMPERATURE | Basic equ. °C | Tse | +19 |

MINIMUM TEMPERATURE

OUTDOOR TEMPERATURE °C Tse +19

* with accessory "All seasons" system

| INDOOR TEMPERATURE °C | | Thi | 19 | 22 |
|------------------------|-----|-----|----|----|
| OUTDOOR TEMPERATURE °C | | 30 | 32 | |
| OUTDOOR TEMPERATURE °C | Tse | 50 | 47 | |

MAXIMUM TEMPERATURE

* with accessory "All seasons" system

COOLING PERFORMANCES

Wasted water Model X 2450 AO

NOMINAL AIR FLOW Qn : 4.500 m³/h

| Air temperature at evaporator inlet (°C) | | | | Wasted water supply | | | | |
|---|----|----|---|---------------------|-------------------|-----|-----|------|
| BH | BS | | | Water temperature | °C | 10 | 15 | 20 |
| 15 | | PT | W | 20285 | Water consumption | l/h | 769 | 901 |
| | | PA | W | 60246 | Water pressure | kPa | 13 | 18 |
| | 21 | PS | W | 13493 | | | | |
| | 23 | | | 15522 | | | | |
| | 25 | | | 17550 | | | | |
| | 27 | | | 20285 | | | | |
| | 29 | | | 20285 | | | | |
| | 31 | | | 20285 | | | | |
| 17 | | PT | W | 21636 | Water consumption | l/h | 811 | 950 |
| | | PA | W | 6092 | Water pressure | kPa | 14 | 20 |
| | 21 | PS | W | 12417 | | | | |
| | 23 | | | 14581 | | | | |
| | 25 | | | 16745 | | | | |
| | 27 | | | 18908 | | | | |
| | 29 | | | 21636 | | | | |
| | 31 | | | 21636 | | | | |
| 19 | | PT | W | 23000 | Water consumption | l/h | 854 | 1000 |
| | | PA | W | 6200 | Water pressure | kPa | 16 | 22 |
| | 21 | PS | W | 9240 | | | | |
| | 23 | | | 11540 | | | | |
| | 25 | | | 13840 | | | | |
| | 27 | | | 16140 | | | | |
| | 29 | | | 18440 | | | | |
| | 31 | | | 20740 | | | | |
| 21 | | PT | W | 24412 | Water consumption | l/h | 903 | 1058 |
| | | PA | W | 6467 | Water pressure | kPa | 18 | 25 |
| | 23 | PS | W | 8045 | | | | |
| | 25 | | | 10486 | | | | |
| | 27 | | | 12927 | | | | |
| | 29 | | | 15368 | | | | |
| | 31 | | | 17810 | | | | |
| | 33 | | | 20251 | | | | |
| 23 | | PT | W | 25837 | Water consumption | l/h | 954 | 1117 |
| | | PA | W | 6774 | Water pressure | kPa | 20 | 27 |
| | 25 | PS | W | 6649 | | | | |
| | 27 | | | 9233 | | | | |
| | 29 | | | 11816 | | | | |
| | 31 | | | 14400 | | | | |
| | 33 | | | 16984 | | | | |

BS =Dry bulb temperature (°C)
 BH =Wet bulb temperature (°C)
 PT =Total cooling capacity (W)
 PA =Power absorbed by the compressor (W) (without fan motor)
 PS =Sensitive cooling capacity (W)
 Power absorbed by the indoor fan = 860 W
 Qn =Nominal air flow

| Air output correction Qn | | | | | |
|----------------------------|--------|--------|-------|--------|--------|
| | 0,8xQn | 0,9xQn | Qn | 1,1xQn | 1,2xQn |
| Total cooling capacity | 0,940 | 0,970 | 1,000 | 1,020 | 1,040 |
| Sensitive cooling capacity | 0,890 | 0,950 | 1,000 | 1,050 | 1,100 |
| Power absorbed | 0,970 | 0,985 | 1,000 | 1,005 | 1,010 |

| Working range | Mini. temperature | Maxi. temperature |
|-------------------------------------|-------------------|-------------------|
| Air temperature at evaporator inlet | | |
| BH (°C) | 15 | 23 |
| BS (°C) | 21 | 32 |
| Water temperature (°C) | 10 | 34 |

COOLING PERFORMANCES

Wasted water Model X 3250 AO

NOMINAL AIR FLOW Qn : 5.800 m³/h

| Air temperature at evaporator inlet (°C) | | | | Wasted water supply | | | | |
|---|-----------|----|---|---------------------|-------------------|-----|------|-----------|
| BH | BS | | | Water temperature | °C | 10 | 15 | 20 |
| 15 | | PT | W | 28598 | Water consumption | l/h | 1074 | 1257 |
| | | PA | W | 8113 | Water pressure | kPa | 14 | 19 |
| | 21 | PS | W | 18141 | | | 33 | |
| | 23 | | | 21001 | | | | |
| | 25 | | | 23861 | | | | |
| | 27 | | | 26721 | | | | |
| | 29 | | | 28598 | | | | |
| | 31 | | | 28598 | | | | |
| 17 | | PT | W | 30493 | Water consumption | l/h | 1132 | 1326 |
| | | PA | W | 8218 | Water pressure | kPa | 16 | 21 |
| | 21 | PS | W | 16491 | | | 37 | |
| | 23 | | | 19540 | | | | |
| | 25 | | | 22589 | | | | |
| | 27 | | | 25639 | | | | |
| | 29 | | | 28688 | | | | |
| | 31 | | | 30493 | | | | |
| 19 | | PT | W | 32400 | Water consumption | l/h | 1452 | 1700 |
| | | PA | W | 8370 | Water pressure | kPa | 26 | 35 |
| | 21 | PS | W | 11980 | | | | 61 |
| | 23 | | | 15220 | | | | |
| | 25 | | | 18460 | | | | |
| | 27 | | | 21700 | | | | |
| | 29 | | | 24940 | | | | |
| | 31 | | | 28180 | | | | |
| 21 | | PT | W | 34348 | Water consumption | l/h | 1259 | 1474 |
| | | PA | W | 8706 | Water pressure | kPa | 19 | 26 |
| | 23 | PS | W | 10259 | | | 46 | |
| | 25 | | | 13694 | | | | |
| | 27 | | | 17129 | | | | |
| | 29 | | | 20564 | | | | |
| | 31 | | | 23999 | | | | |
| | 33 | | | 27433 | | | | |
| 23 | | PT | W | 36306 | Water consumption | l/h | 1328 | 1555 |
| | | PA | W | 9090 | Water pressure | kPa | 21 | 29 |
| | 25 | PS | W | 8265 | | | 51 | |
| | 27 | | | 11895 | | | | |
| | 29 | | | 15526 | | | | |
| | 31 | | | 19157 | | | | |
| | 33 | | | 22787 | | | | |

BS = Dry bulb temperature (°C)
 BH = Wet bulb temperature (°C)
 PT = Total cooling capacity (W)
 PA = Power absorbed by the compressor (W) (without fan motor)
 PS = Sensitive cooling capacity (W)
 Power absorbed by the indoor fan = 1430 W
 Qn = Nominal air flow

| Air output correction Qn | | | | | |
|----------------------------|--------|--------|-------|--------|--------|
| | 0,8xQn | 0,9xQn | Qn | 1,1xQn | 1,2xQn |
| Total cooling capacity | 0,940 | 0,970 | 1,000 | 1,020 | 1,040 |
| Sensitive cooling capacity | 0,890 | 0,950 | 1,000 | 1,050 | 1,100 |
| Power absorbed | 0,970 | 0,985 | 1,000 | 1,005 | 1,010 |

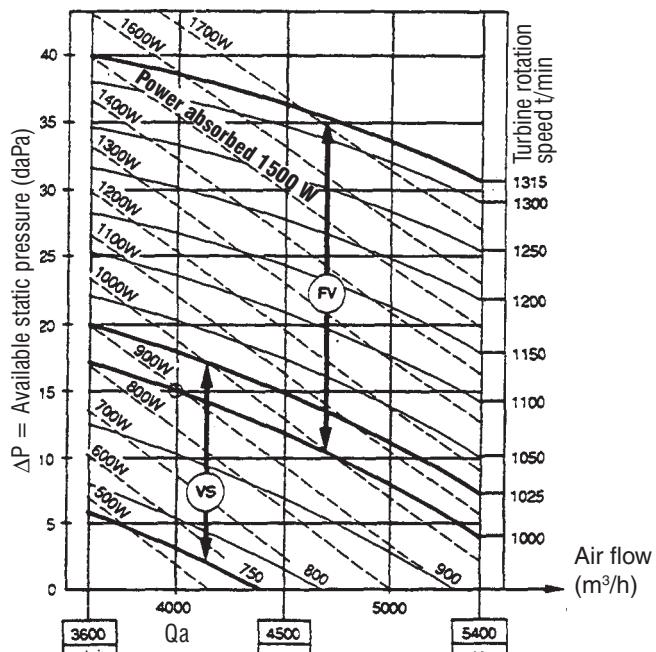
| Working range | Mini. temperature | Maxi. temperature |
|-------------------------------------|-------------------|-------------------|
| Air temperature at evaporator inlet | | |
| BH (°C) | 15 | 23 |
| BS (°C) | 21 | 32 |
| Water temperature (°C) | 10 | 34 |

AERAULIC CHARACTERISTICS

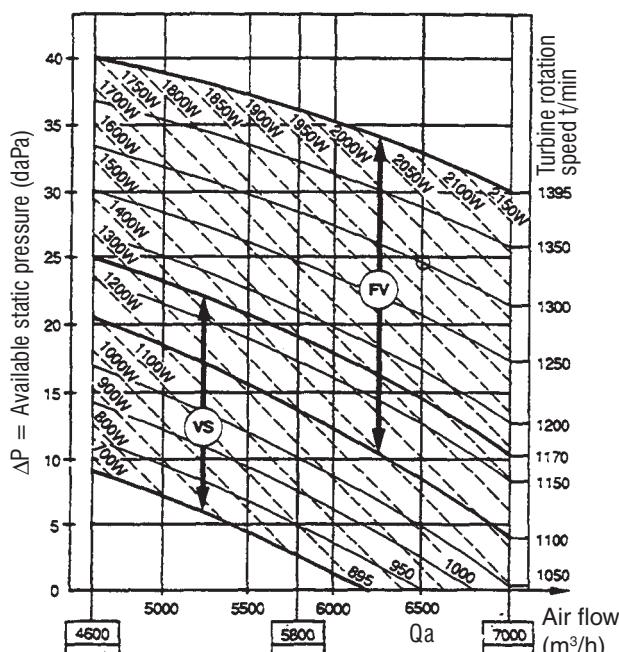
Models AR/AO

FRONT OR REAR AIR INTAKE WITH STANDARD AIR FILTERS

X 2450



X 3250


Example : Model X 2450

$Q_a = 4000 \text{ m}^3/\text{h}$
Standard Ventilation (VS)
Available static pressure : 15 daPa
Fan rotation speed : 1000 r.p.m.
Power absorbed : 890 W

Example : Modèle X 3250

$Q_a = 6500 \text{ m}^3/\text{h}$
High Ventilation (FV) in option
Available static pressure : 25 daPa
Fan rotation speed : 1300 r.p.m.
Power absorbed : 1950 W

| VENTILATION EQUIPMENT | Standard ventilation (VS) | | High Ventilation (FV) | |
|--|---|--------------|-----------------------|--------------|
| | Motor 1,1 kW | Motor 1,5 kW | Motor 1,1 kW | Motor 1,5 kW |
| Rotation speed turbine r.p.m. | Mini | Maxi | Mini | Maxi |
| | 750 | 1025 | 1000 | 1315 |
| Available static pressure daPa without accessory | Nominal flow 4500 m^3/h | 0 | 15 | 12 |
| | Minimum flow 3600 m^3/h | 6 | 20 | 17 |
| X 2450 | | | | |

| | |
|---|---------------|
| Pressure drops of accessories ($Q_n = 4500 \text{ m}^3/\text{h}$) | X 2450 |
| Integrated electric heating | daPa 2 |
| Hot water heating coil | daPa 2 |
| Blowing plenum | daPa 2 |
| Filters 90 % | daPa 2 |

Q_a = Treated air flow

Q_n = Nominal air flow

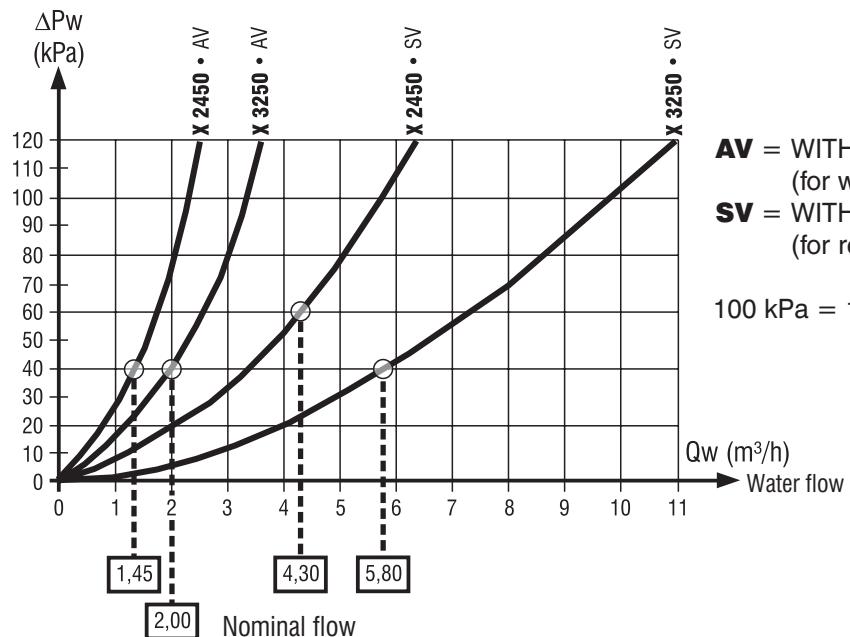
| VENTILATION EQUIPMENT | Standard ventilation (VS) | | High Ventilation (FV) | |
|--|---|---------------|-----------------------|---------------|
| | Motor 1,1 kW | Motor 1,85 kW | Motor 1,1 kW | Motor 1,85 kW |
| Rotation speed turbine r.p.m. | Mini | Maxi | Mini | Maxi |
| | 895 | 1170 | 1100 | 1395 |
| Available static pressure daPa without accessory | Nominal flow 5800 m^3/h | 3 | 19 | 13 |
| | Minimum flow 4600 m^3/h | 9 | 25 | 20 |
| X 3250 | | | | |

| | |
|---|---------------|
| Pressure drops of accessories ($Q_n = 5800 \text{ m}^3/\text{h}$) | X 3250 |
| Integrated electric heating | daPa 1 |
| Hot water heating coil | daPa 3 |
| Blowing plenum | daPa 3 |
| Filters 90 % | daPa 2 |

HYDRAULIC CHARACTERISTICS

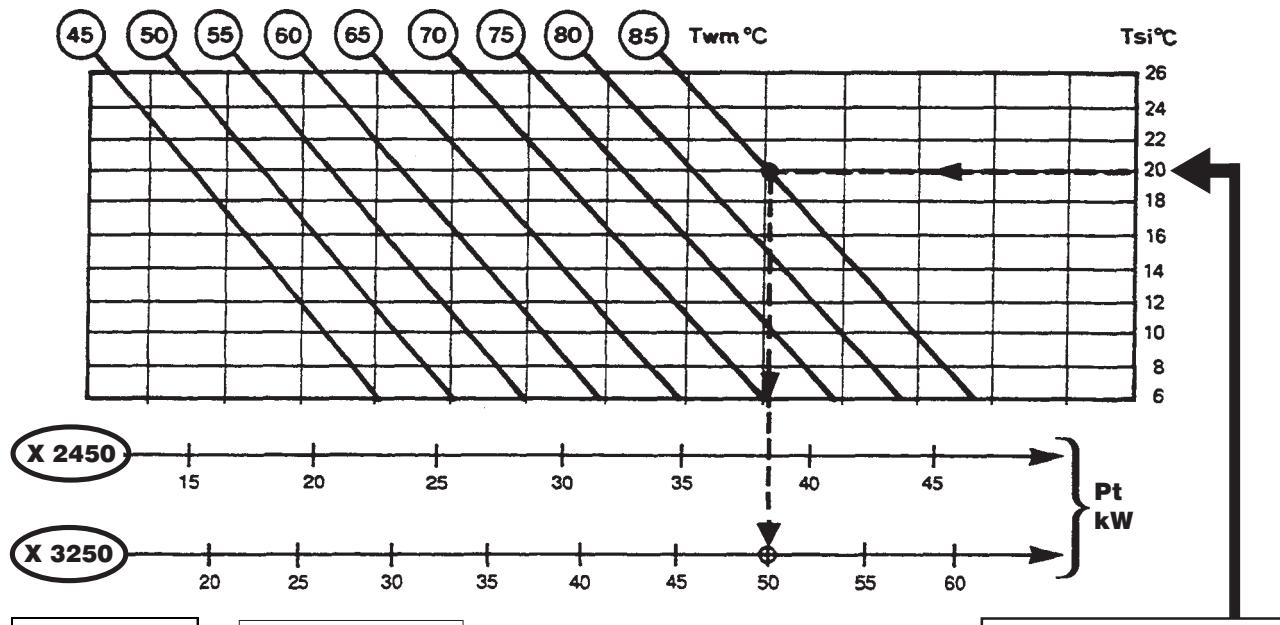
Model AO – Condenser supply

**HYDRAULIC PRESSURE LOSS
WITH PRESSOSTAT VALVE (AV)
WITHOUT PRESSOSTAT VALVE (SV)**



| WATER SUPPLY | WASTED WATER | | |
|--|---------------------|------------------------|------|
| MODELS | X 2450 | X 3250 | |
| NOMINAL WATER FLOW (AIR TO BE TREATED 27 °C - 47 %) | (m³/h) | 1,45 | 2,00 |
| NOMINAL WATER TEMPERATURE | Inlet (°C) | 15 | |
| | Outlet (°C) | – | |
| WATER PRESSURE | Minimum (kPa) | 50 | |
| | Maximum (kPa) | 1000 | |
| HYDRAULIC CONNECTIONS (Left or right) | Female nut | | |
| | Ø Inlet/Outlet (mm) | F Ø 26 x 34 (1") | |
| CONDENSATE DISCHARGE Flexible pipe | Ø (mm) | 26/32 | |
| SAFETY DISCHARGE Bottom of unit | Ø (mm) | 7/8" 22 mm external | |

HEATING PERFORMANCE HOT WATER COIL Models AR - AO (Accessory)



| K ₁ COEFFICIENT AIR FLOW | |
|--|----------------|
| Qa/Qn | K ₁ |
| 0,80 | 0,87 |
| 0,90 | 0,95 |
| 1 | 1 |
| 1,10 | 1,06 |
| 1,20 | 1,13 |

$$Pt = K_1 \times K_2 \times Pt_1$$

| Q ₂ COEFFICIENT ΔTw | | | | | | | |
|--------------------------------|------|----|------|------|------|------|------|
| ΔTw °C | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| K ₂ | 1,01 | 1 | 0,98 | 0,96 | 0,95 | 0,94 | 0,92 |

| | X 2450 | X 3250 |
|-------------------------------|-------------------|------------------|
| Capacity | 1 | 4 |
| Nominal water flow | m ³ /h | 3,3 |
| Maxi. water pressure | kPa | 1000 |
| Maxi. water inlet temperature | Twe °C | 90 |
| Mini. dry indoor temperature | Tsi °C | + 6 |
| Ø Connection | mm | F33 x 42 (1"1/4) |

Note : Anti-freeze to be provided for.

Protection anti-freeze

Note :
Anti-freeze mandatory in summer and winter

Water flow

$$Q_w = \frac{0,86 \times Pt \text{ (kW)}}{\Delta Tw}$$

Pt₁ = Total cooling capacity with nominal air flow

Pt = Total cooling capacity

Tsi = Dry indoor temperature

Qa = Treated air flow

Qn = Nominal air flow

Qw = Water flow

Twe = Hot water inlet temperature

Tws = Hot water outlet temperature

ΔTw = Difference in temperature water inlet/outlet

Twm = Hot water average temperature

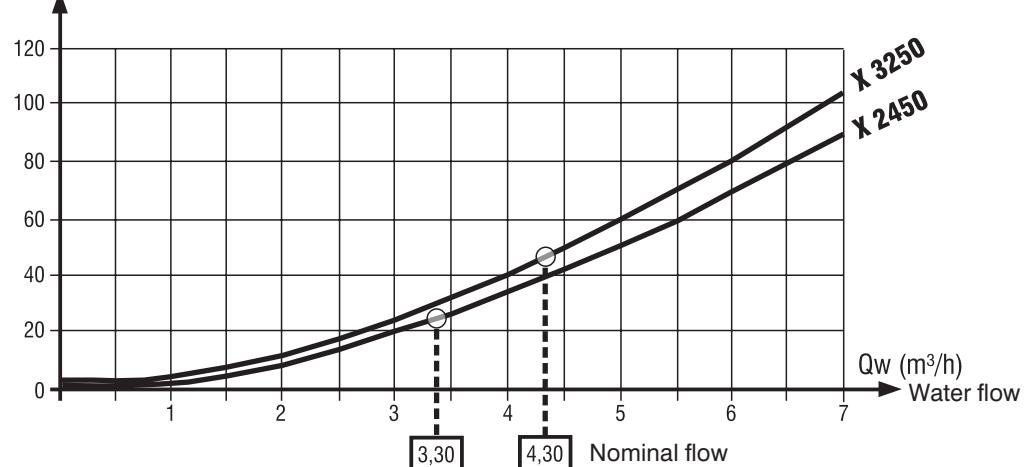
ΔPw = Hot water pressure drops

Model X 3250

Ex : Tsi = 20 °C
Water = 90/80 °C
Twm = 85 °C
Pt₁ = 50 W

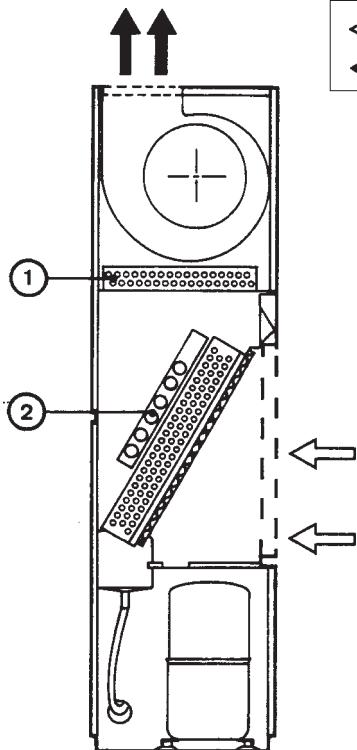
ΔPw
(kPa)

WATER PRESSURE LOSSES



ELECTRICAL HEATER / HOT WATER COIL ACCESSORIES

BUILT-IN HEATER

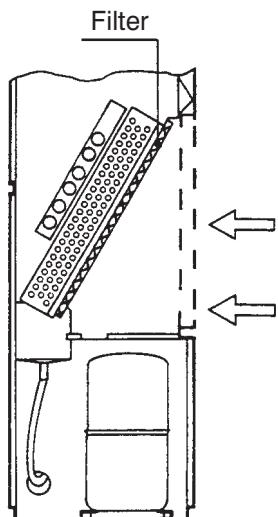


| Marks | Models | | | X 2450 | X 3250 |
|-------|-------------------|-------------------------|------------------|----------|--------|
| ① | HOT WATER COIL | Nominal power input kW | 38,5 | 50 | |
| | | Nominal water flow m³/h | 3,3 | 4,3 | |
| | | Water pressure loss kPa | 24 | 44 | |
| | | Ø Connections mm | F33 x 42 (1"1/4) | | |
| ② | ELECTRICAL HEATER | Total power input kW | 9 + 9 | 13,5 + 9 | |
| | | Number of stages | 2 | 2 | |
| | | Number of elements | 12 | 12 | |
| | | Power input/element kW | 1,5 | 1,5 | |

NOTES :

- The electrical heater and the hot water coil can not both be fitted.
- Provide for a separate regulation for the hot water coil.
- The integrated electric heater is supplied with an automatic cooling/heating thermostat with neutral zone and is equipped with 2 temperature limit controls (manual/automatic).

FILTER



| Supply - Name | Basic - AR150 | | Accessory - AR300 | |
|-----------------------------------|---|----------------------------|-------------------|------------------|
| Models | X 2450 | X 3250 | X 2450 | X 3250 |
| FILTER | Flat with metal frame, mounted on sliding rails | | | |
| MATERIAL | Flame retardant synthetic fibres | | | |
| NUMBER OF FILTERS | 2 - Re-usable | | | |
| DIMENSIONS W x D x H | W mm D mm H mm | 555 15 630 | 670 12 525 | 555 18 630 |
| EFFICIENCY (1) | % | 83 | | 90 |
| EUROVENT /CSTB (2) CLASSIFICATION | | EU3/M1 | | EU4/M1 |
| ACCESS | | Air intake grilles (front) | | |

COMMENT :

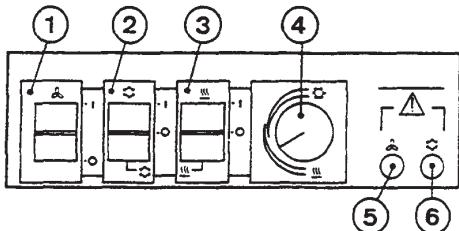
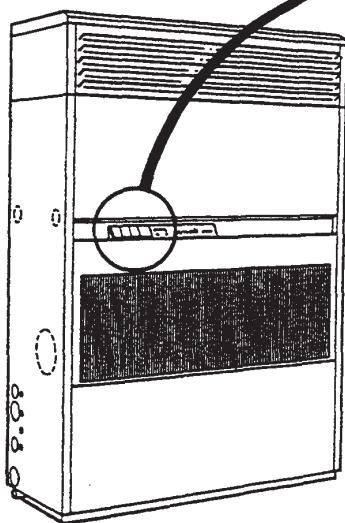
The filters also provides clean air from the fresh air intake (fresh air intake accessory) and the rear air intake.

(1) Test report 603 325/3 dated 05.05.76 issued by the L.N.E. (PARIS)

(2) Test report 82.18176 dated 12.05.82

CONTROLS AND REGULATION

Control panel

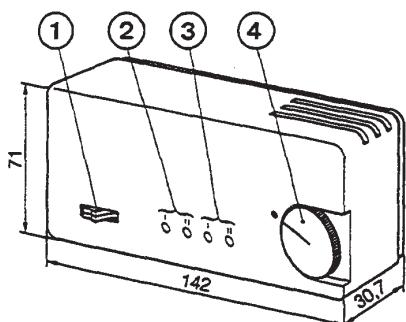


- ① Ventilation On/Off switch
 - O Off
 - 1 On (with control light)
- ② "Cooling" selection switch
 - O Off
 - 1 On "Cooling"
- ③ "Heating" selection switch
 - O Off
 - 1 On "Heating" C1 + C2
- ④ Built-in thermostat
 - 1 cooling (basic supply)
 - 1 cooling + 1 heating (with heating accessory)
 - with neutral zone (accessory)
 - with 4 stages (accessory)
- ⑤ Fault ventilation
- ⑥ Fault compressor (HP pressure switch and thermic compressor).

NOTES :

With the automatic "Cooling/ Heating" thermostat with neutral zone supplied with the integrated electric heater, automatic operation is obtained by placing the 2 selection switches ② and ③ on position 1.

REMOTE CONTROL (accessory)



Dimensions in mm

- ① ON/OFF Cooling/Heating switch
- ② Heating signal lamps
- ③ Cooling signal lamps (1 stage available)
- ④ Adjustment of reference temperatures (can be locked on min. and max. positions).

HEATING CONTROL

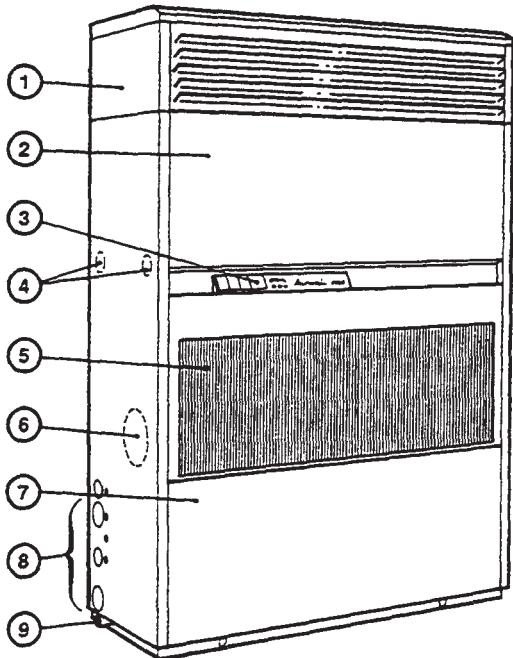
IN-BUILT ELECTRICAL HEATER

This accessory is supplied with an automatic "Cooling/Heating" thermostat with neutral zone which replaces the ambient thermostat ④ supplied with the unit.

HOT WATER HEATING

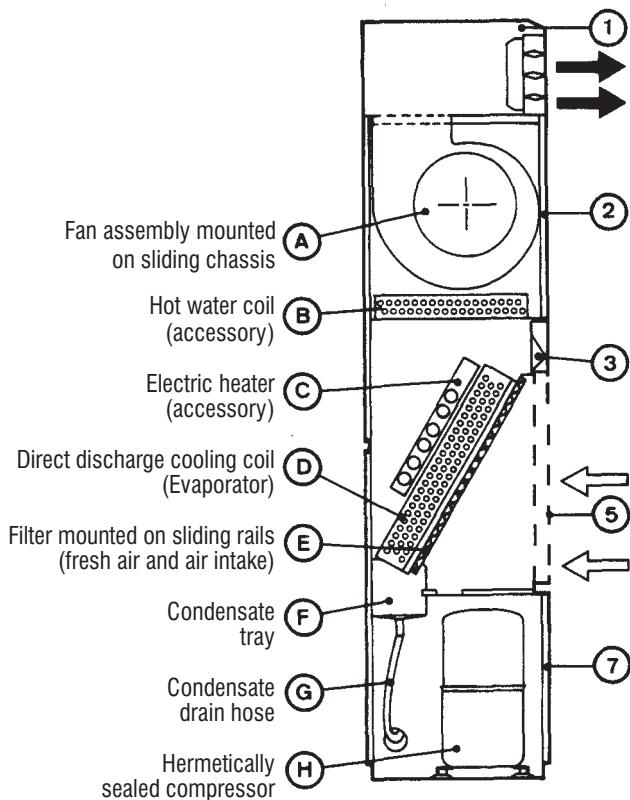
This accessory must be equipped with an anti-freeze safety device and a regulation system (not supplied) compatible with the installation.

DESCRIPTION OF THE AIR TREATMENT UNIT

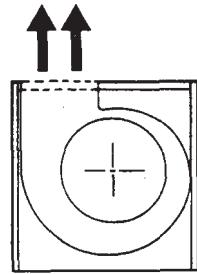


- ① Discharge plenum (accessory) with double deflection
- ② Access panel to the air-cooled motor fan unit and the hot water coils (accessory) or to the electric heater (accessory)
- ③ Control panel for regulation and display
- ④ Hydraulic connections of hot water coils.
Access to right or left hand side.
- ⑤ Air intake grille
- ⑥ Connection for fresh air intake (accessory not supplied), on left or right
- ⑦ Access panel to the electrical and refrigeration compartments
- ⑧ Connections for electric, hydraulic and refrigerating links (left or right)
- ⑨ Safety drain pipes from watertight bottom.
Access on left or right side.

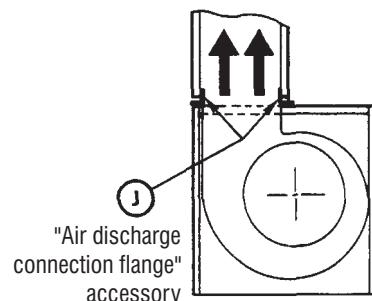
FRONT DISCHARGE
(WITH "Plenum" accessory)



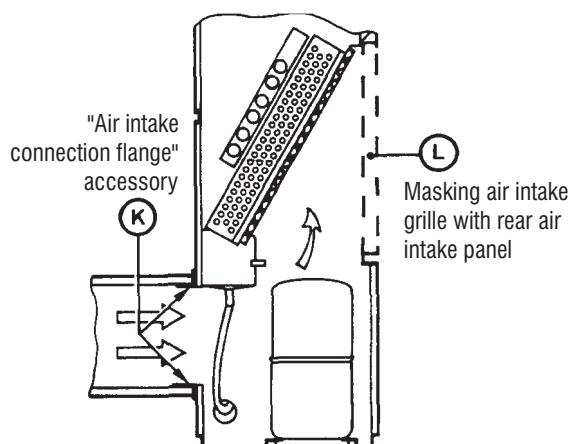
VERTICAL DISCHARGE
(WITHOUT accessory)



DISCHARGE WITH DUCTS
(WITH "Connection flange" accessory)



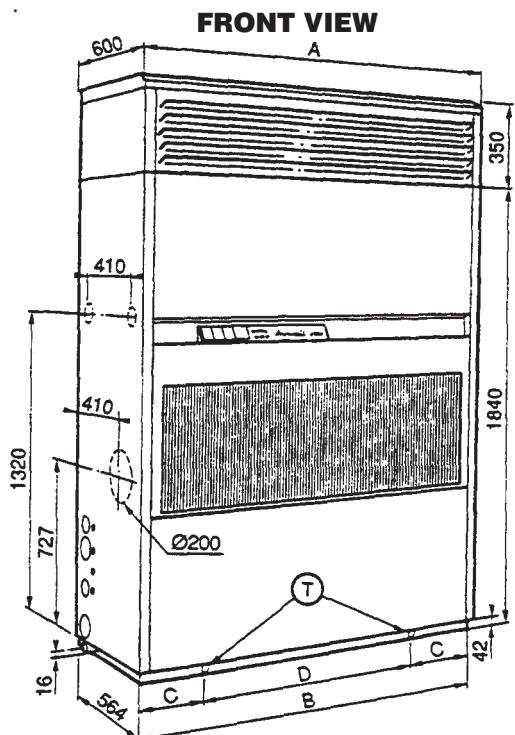
REAR AIR INTAKE
(WITH "Air intake connection flange" accessory)



DIMENSIONS • INSTALLATION

Air treatment unit

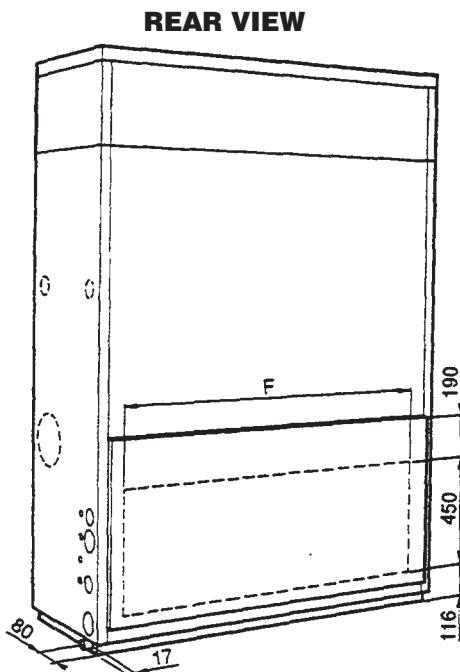
See exact mounting specifications in the installation instructions supplied with the equipment.



| Models | | |
|----------|--------|--------|
| | X 2450 | X 3250 |
| A | 1300 | 1530 |
| B | 1264 | 1494 |
| C | 132 | 247 |
| D | 1000 | 1000 |
| F | 810 | 1040 |
| G | 136 | 136 |
| H | 269 | 335 |
| K | 170 | 256 |

(T) : Tapped holes M8 to fasten on the floor (at front and rear)

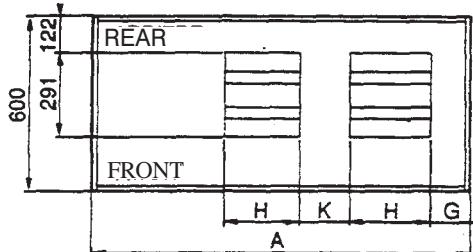
Dimensions in mm



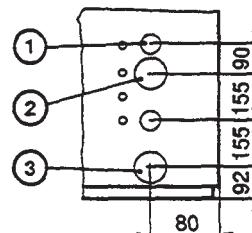
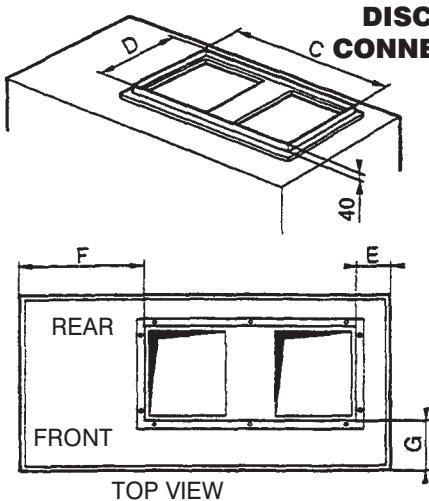
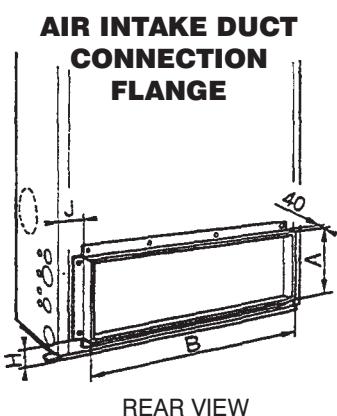
CLEARANCES TO BE PROVIDED (mm)

| FRONT | | LATERAL | |
|-----------|--------|-----------|--------|
| DISCHARGE | | SIDE | |
| Vertical | Plenum | Connecti. | Oppos. |
| 650 | 1000 | 650 | - |

TOP VIEW (without plenum)



ACCESSORIES (External dimensions)



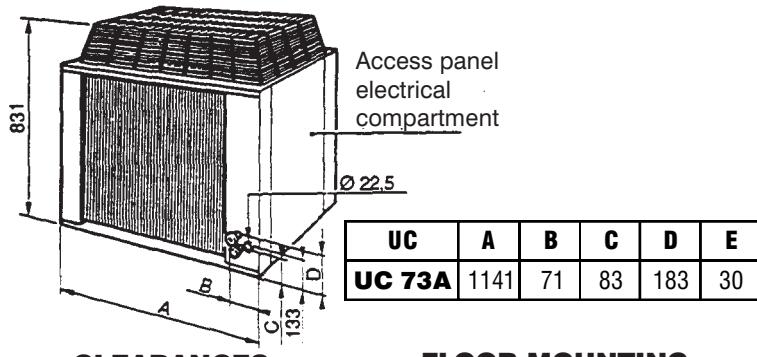
- ① Water outlet
- ② Condensate draining
- ③ Water inlet

| Models | A | B | C | D | E | F | G | H | J |
|---------------|-----|------|-----|-----|-----|-----|-----|-----|-----|
| X 2450 | 452 | 812 | 738 | 321 | 121 | 441 | 170 | 115 | 244 |
| X 3250 | | 1042 | 956 | | | 453 | | | |

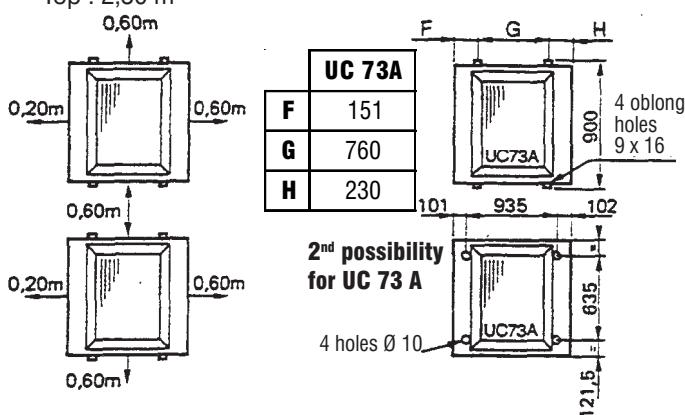
DIMENSIONS • INSTALLATION

Outdoor condensing unit - Type UC 73A / X 2450

Model AR

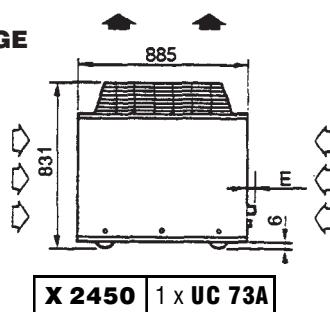

CLEARANCES TO BE PROVIDED

Top : 2,50 m


FLOOR MOUNTING AND FIXING

Dimensions in mm

INTAKE
DISCHARGE

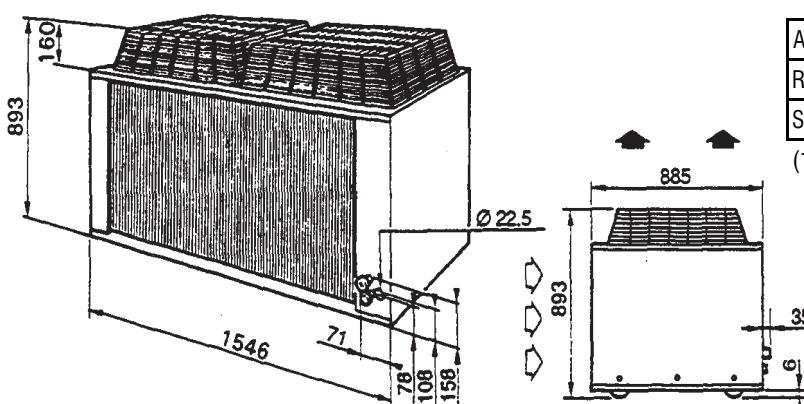


| UC 73A | |
|------------------------------|-------|
| Air flow | m³/h |
| Rotational speed ventilation | r.p.m |
| Sound pressure at 10 m (1) | dBA |

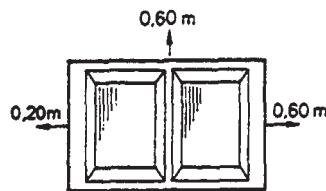
(1) Sound pressure in open space on reflecting surface

Outdoor condensing unit - Type UC 103A / X 3250

Model AR


CLEARANCES TO BE PROVIDED

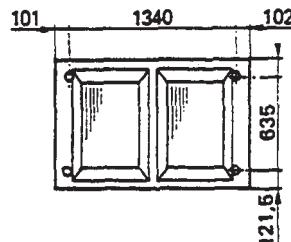
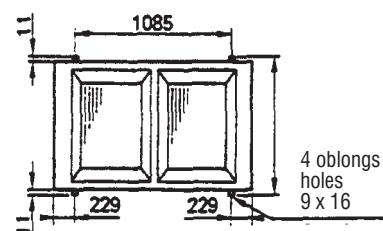
Top : 2,50 m


FLOOR MOUNTING AND FIXING
2 possibilities

| UC 103A | |
|------------------------------|-------|
| Air flow | m³/h |
| Rotational speed ventilation | r.p.m |
| Sound pressure at 10 m (1) | dBA |

(1) Sound pressure in open space on reflecting surface

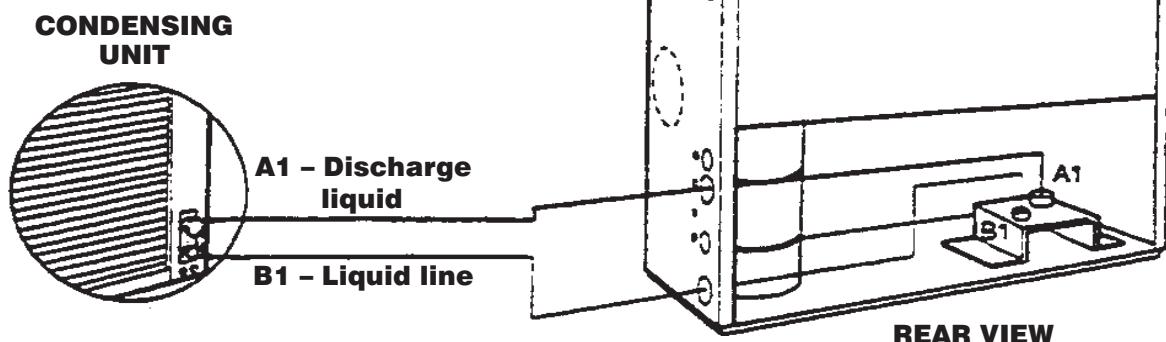
INTAKE
DISCHARGE



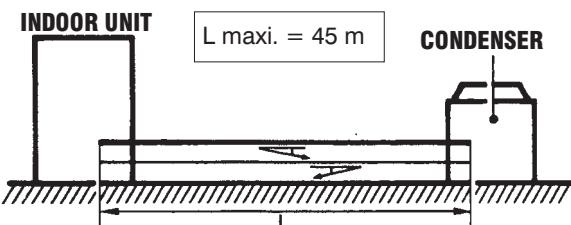
REFRIGERATION PIPEWORK

Model AR

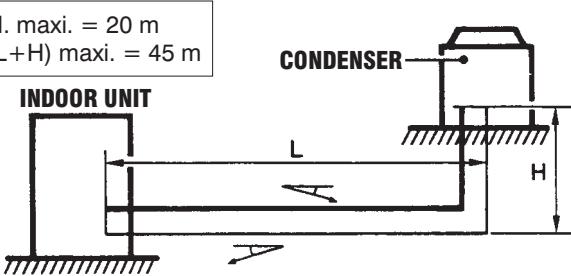
UC 73A = X 2450
UC 103A = X 3250



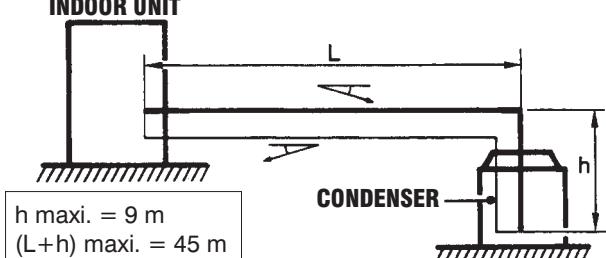
CONDENSER AT THE SAME LEVEL AS THE INDOOR UNIT



CONDENSER HIGHER THAN THE INDOOR UNIT



CONDENSER LOWER THAN THE INDOOR UNIT



Bending of refrigeration pipes : $R \geq \varnothing 3,5$

Minimum slope downwards : 1 cm/m

— Discharge Line

— Liquid Line

REFRIGERANT CHARGE in R-407C

| | X 2450 | X 3250 |
|---|----------------------|---------------------|
| Air treatment | | |
| Model AR | g 600 | 1670 |
| Condensing units | | |
| UC 73A | g 7000 | - |
| UC 103A | g - | 8130 |
| Precharged linking pipes (maxi. length 25 m) | | |
| • Discharge line | \varnothing charge | 5/8" Precharge 3/4" |
| • Liquid line | \varnothing charge | 1/2" Precharge 5/8" |
| | g/m* | 110 183 |
| Model AO (indoor unit) | 5220 | 6615 |

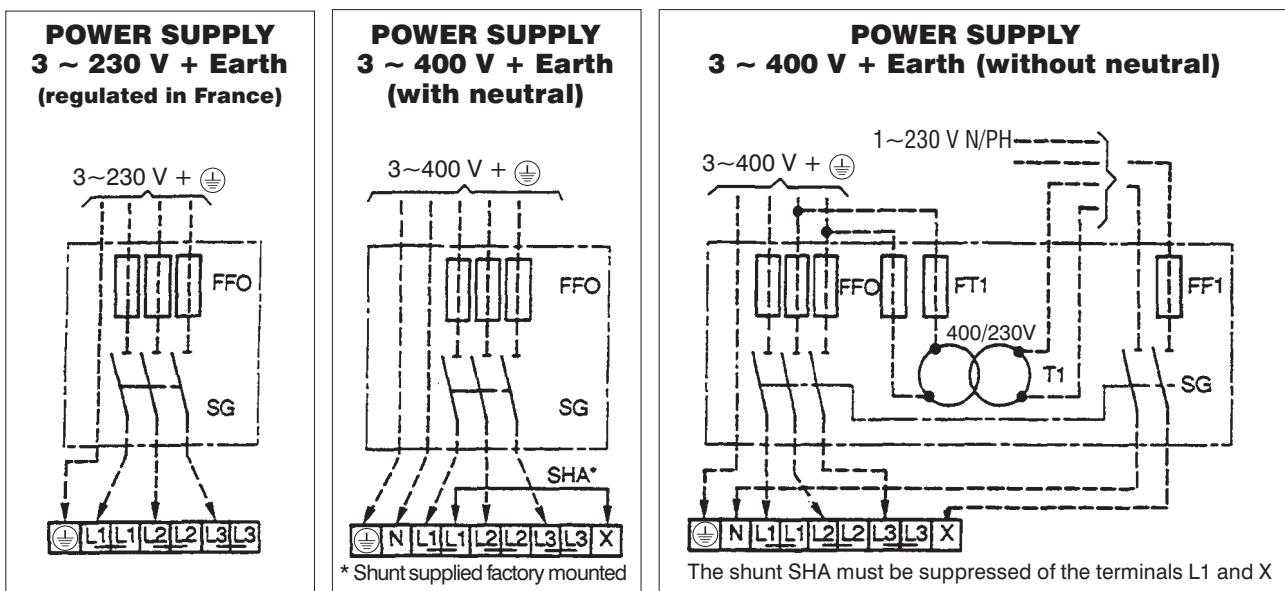
* per m above 2 m

NOTES :

For pipes between 25 and 45 m long (made on the site) the choice of the pipes (diameter) and the installation must be made professionally.

ELECTRICAL CONNECTIONS

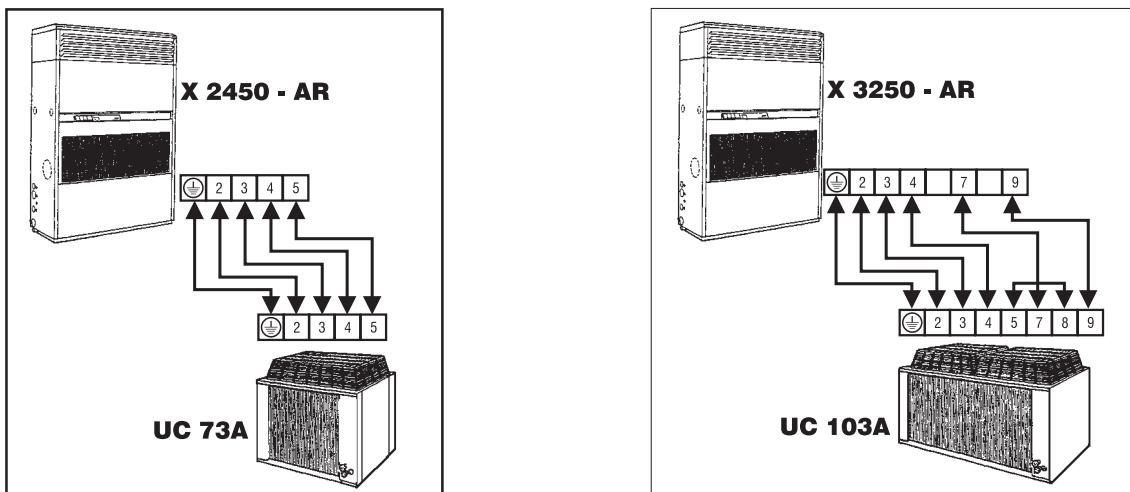
Main power supply



SG : GENERAL SELECTOR MANDATORY
FFO - FF1 - FT1 : FUSE TYPE aM
T1 : TRASFORMER 400/230 V

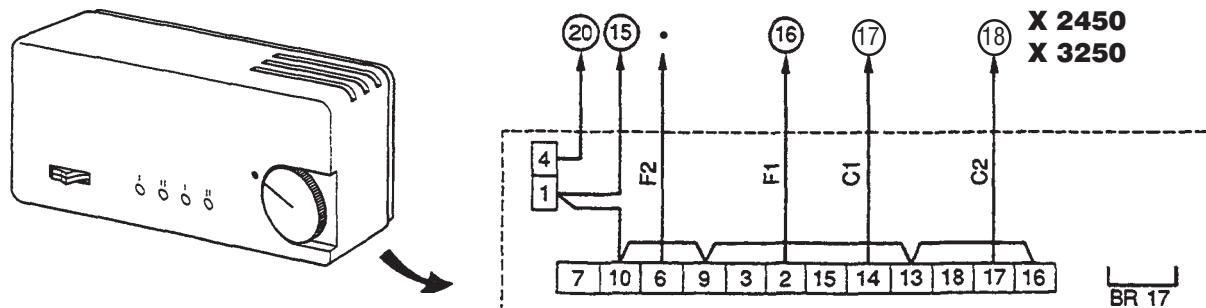
} to be supplied by installer
(comply with local regulations)

INTERCONNECTIONS WITH OUTDOOR (Models AR)



NOTE : Motors UC 73A and UC 103A are coupled of single phase 400/230 V.coupling.
They are supplied ex-factory coupled for single phase 400 V.
To are to be coupled on site at the power supply voltage of the cabinet, that is single phase 230 V for a three phase 230 V cabinet.

INTERCONNECTIONS WITH REMOTE AMBIENT THERMOSTAT (Accessory)



* Cooling regulation stage F2 N° 2 available for mono-compressor models (X 2450 / X 3250).

ELECTRICAL SPECIFICATIONS

Main power supply

| Unit type | Model X 2450 | | | | Model X 3250 | | | |
|--|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| Power supply | 3 ~230 V* - 50 Hz | | 3N ~400 V - 50 Hz | | 3 ~230 V* - 50 Hz | | 3N ~400 V - 50 Hz | |
| Models | AR | AO | AR | AO | AR | AO | AR | AO |
| • Cooling + Ventilation(VS/FV)* | | | | | | | | |
| - Nominal power input | kW | 8,2/8,9 | 7,1/7,8 | 8,2/8,9 | 7,1/7,8 | 11,7/12,5 | 9,8/10,6 | 11,7/12,5 |
| - Nominal intensity | A | 26/29 | 22/25 | 16/18 | 13/15 | 35/39 | 30/33 | 21/24 |
| - Maximum intensity | A | 37/40 | 32/35 | 23/25 | 19/21 | 53/55 | 46/48 | 32/34 |
| - Starting intensity | A | 145/154 | 124/133 | 83/86 | 71/74 | 200/220 | 176/196 | 117/128 |
| - Motor fuse rating | A | 40 | 32/40 | 25 | 20/25 | 63 | 50 | 32/40 |
| - Cable size | mm ² | 10 | 6/10 | 4 | 2,5/4 | 16 | 10 | 6/10 |
| • Electrical heating + Ventilation (VS/FV) | | | | | | | | |
| - Nominal power input | kW | 18,7/19,3 | 18,7/19,3 | 18,7/19,3 | 18,7/19,3 | 23,4/24,3 | 23,4/24,3 | 23,4/24,3 |
| - Nominal intensity | A | 50/53 | 50/53 | 29/31 | 29/31 | 63/74 | 63/74 | 36/43 |
| - Maximum intensity | A | 59/62 | 59/62 | 33/35 | 33/35 | 74/76 | 74/76 | 43/45 |
| - Starting intensity | A | 145/154 | 124/133 | 83/86 | 71/74 | 200/220 | 176/196 | 117/128 |
| - Motor fuse rating | A | 63 | 63 | 40 | 40 | 80 | 80 | 50 |
| - Cable size | mm ² | 16 | 16 | 10 | 10 | 25 | 25 | 10 |
| • Deshumidification + Ventilation (VS/FV) | | | | | | | | |
| - Nominal power input | kW | 26,2/26,9 | 25,1/25,8 | 26,2/26,9 | 25,1/25,8 | 34,2/35,0 | 32,3/33,1 | 34,2/35,0 |
| - Nominal intensity | A | 73/77 | 70/73 | 43/45 | 40/42 | 94/98 | 89/92 | 55/58 |
| - Maximum intensity | A | 91/94 | 86/89 | 53/55 | 49/51 | 120/122 | 113/115 | 71/73 |
| - Starting intensity | A | 199/208 | 178/187 | 113/116 | 101/104 | 267/287 | 243/263 | 156/167 |
| - Motor fuse rating | A | 100 | 100 | 63 | 50/63 | 125 | 125 | 80 |
| - Cable size | mm ² | 35 | 35 | 16 | 10/16 | 50 | 50 | 25 |

* VS : Standard Ventilation - FV : High Ventilation.

INTERCONNECTIONS WITH OUTDOOR UNIT • Model AR

| Unit type | Model X 2450 | | | Model X 3250 | |
|-----------------------|-----------------|-----------------|------------------|-----------------|------------------|
| Power supply | 3~230 V*- 50 Hz | | 3N~ 400 V- 50 Hz | 3~230 V*- 50 Hz | 3N~ 400 V- 50 Hz |
| • Unit power | Model | UC 73A | UC 73A | UC 103A | UC 103A |
| Outdoor unit | Coupling | ~ 230 V - 50 Hz | ~ 230 V - 50 Hz | ~ 230 V - 50 Hz | ~ 230 V - 50 Hz |
| - Nominal power input | kW | 580 | 580 | 590 | 590 |
| - Nominal intensity | A | 3 | 1,7 | 3,2 | 1,8 |
| - Maximum intensity | A | 3,2 | 1,8 | 4 | 2 |
| - Starting intensity | A | 5 | 3 | 6 | 3 |
| - Cable size | mm ² | 1,5 | 1,5 | 1,5 | 1,5 |

* THREE PHASE 230 V : Installation regulated in France.

** **IMPORTANT** : These values are for information only, they should be checked and selected to comply with local and/or national codes and regulations. They are also subject to the type of installation and to the type of cables.

INTERCONNECTIONS WITH REMOTE CONTROL • TRANSFORMER

| INTERCONNECTION WITH REMOTE CONTROL (accessory) | | |
|---|-----------------|--------------|
| Unit type | Model X 2450 | Model X 3250 |
| • Cooling+ventilation (VS/FV) | | |
| - Nominal intensity | A | 1 |
| - Maximum intensity | A | 2 |
| - Starting intensity | A | 3 |
| - Cable size | mm ² | 1 |

| TRANSFORMER (Not supplied) for power supply 3~400 V + Earth, without neutral | | | |
|---|--------|-----|-----|
| Models | | AO | AR |
| Nominal power input | X 2450 | | |
| single phase transformer 400 V / 230 V in VA | X 3250 | 100 | 100 |

Airwell



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