



**COMEX
GROUP**

TUTTO UN ALTRO CLIMA



DUALJET

THE CENTRIFUGAL SPLITED CONDENSING SYSTEM

ABOUT US ...technological innovation since 1986



OUR MISSION

Founded in 1986 as a manufacturer of industrial furnaces, **Comex Group** has built its history on a fundamental value: technological innovation.

Many years of experience in the heating and air-conditioning sectors, combined with the continuous acquisition of know-how on new technologies and applications, have enabled the company to apply solutions that are always up-to-date using heat pump systems, solar cooling, heat recovery, thermal power stations and, most recently, air sanitation.

Research and innovation have distinguished the company in the heating and air conditioning sector with important advantages for **Comex Group** customers in the areas of energy saving, safety and environmental protection.

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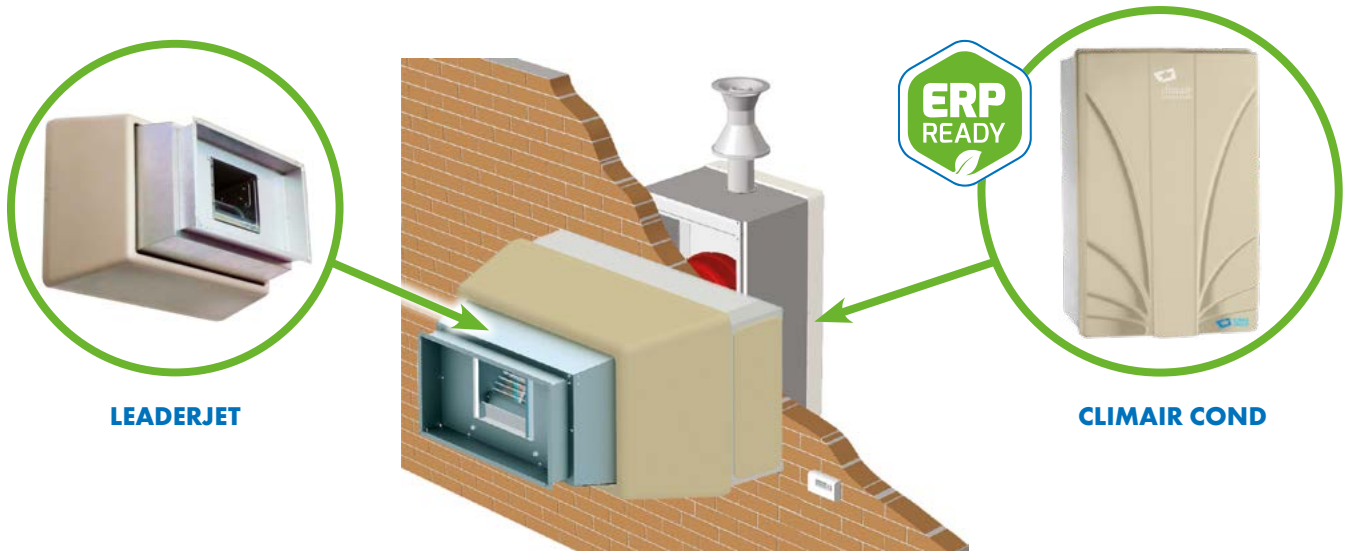
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The Comex Group reserves the right to change them without prior notice.

DUAL JET

The centrifugal standard split heating system

DUALJET is a **CENTRIFUGAL SPLIT HEATING SYSTEM** with a fan heater prepared for ducting.

DUAL JET is basically composed of the combination of: **CLIMAIR COND + LEADERJET**



DUAL JET is available with the following heat outputs: **32 kW, 47 kW, 65 kW, 94 kW, 107 kW** and offers a high average seasonal efficiency.

The wall-mounted condensing boiler has an IPX5D degree of protection and the fan heater IP54

The supporting structure with an ABS and painted steel shell for the fan heater, and ABS and painted INOX steel for the external boiler, both guarantee robustness and solidity.

The condensing boiler is equipped with a class 5 and 6 premixed low NO_x burner. An electronic control unit manages automatic modulation of the thermal load and variable speed ventilation with high air flow rates.

Why is **DUAL JET** an ideal solution?

1 BECAUSE IT ALLOWS WELL-BEING AND ENERGY SAVINGS

2 BECAUSE IT HEATS UP IN A VERY SHORT TIME

3 BECAUSE IT RESPECTS THE ENVIRONMENT AND REDUCES CO₂ EMISSIONS

DUAL JET - Main characteristics



The DUAL JET split system consists of a wall-mounted 'CLIMAIR COND' high-efficiency condensing boiler for outdoor use, combined with one or more 'LEADERJET' fan heaters to be installed, also in combination with air diffusion ducts, in the room to be heated.

The package includes:

- Climair range wall-mounted condensing boiler
- On-site flue gas exhaust kit
- Indoor fan heater(s) from the LeaderJet range
- External probe for climatic compensation
- Room thermostat kit w/double speed

The DUALJET split system is ideal for heating rooms where regulations prevent the installation of gas appliances inside rooms, and it is exempt from fire brigade practice even for systems greater than 116 kW, as the heat generator is installed outside the building and the capacities are therefore not added together.

DUAL JET - Technical characteristics

Various configurations possible with 5 types of boilers and 5 types of fan heaters

The DUAL JET split system heats quickly thanks to a low thermal inertia of the condensing boiler exchanger

- Outdoor MURAL condensing boiler
- On-site flue gas exhaust kit (standard)
- Room thermostat kit w/double speed (standard)
- External probe (standard)
- Climair casing in ABS and painted steel (Mod. 45, 70) or INOX steel (Mod. 35,100, 115)
- High efficiency ★★★★★
- Equipped with safety devices
- Frost protection
- Climair IPX5D degree of protection

- LEADERJET casing in ABS and galvanised steel
- LEADERJET prepared for wall installation
- LEADERJET are ideal for air distribution with rectangular or circular fabric and polyethylene distribution ducts
- Dual-speed fan with variable air flow at minimum speed
- High air flow rates
- Flanged plenum discharge connection for easy connection
- LeaderJet IP55 degree of protection

Optionals

- Filter for purification from suspended dust
- Flexible boiler-thermal fan connection kit
- Electrical expansion panel for controlling several LeaderJets

For further information on use, plant design, etc., please contact the Comex Group technical department.

DUAL JET 30-50 - Range



DUAL JET 30-50 - Technical Data

| DUALJET MODEL | | | 30 1x35 | 50 1x70 | 50 2x35 |
|--|-----------|-------------------|---------------|---------------|---------------|
| RATED HEAT CAPACITY [Hi] | Max | kW | 32,0 | 47 | 47 |
| | Min | kW | 3,4 | 8,5 | 8,5 |
| TOTAL HEAT OUTPUT | Max speed | kW | 30,7 | 45,3 | 45,4 |
| | Min speed | kW | 26 | 38,6 | 42,6 |
| AIR FLOW | Max speed | m ³ /h | 3.300 | 6.600 | 6.600 |
| | Min speed | m ³ /h | 1.900 | 3.800 | 3.800 |
| AIR TEMPERATURE | In | °C | 16 | 16 | 16 |
| | Out | °C | 46,5 | 37,8 | 37,8 |
| HYDRAULIC CONNECTIONS | | | | | |
| CIRCULATION WATER FLOW RATE | | l/h | 1.060 | 1.775 | 1.775 |
| PLANT AVAILABLE HEAD | | m.w.c. | 3,2 | 1,9 | 1,6 |
| CLIMAIR HYDRAULIC CONNECTIONS | Gas | "M | ¾ | ¾ | ¾ |
| | In/Out | "M | ¾ | ¾ | ¾ |
| LEADERJET HYDRAULIC CONNECTIONS | In/Out | "M | ¾ | 1 | ¾ |
| ELECTRICAL CHARACTERISTICS - OVERALL DIMENSIONS | | | | | |
| SUPPLY VOLTAGE | | V/Hz | 230/50 | 230/50 | 230/50 |
| ELECTRICAL POWER CONSUMPTION | Max | W | 502 | 720 | 1.020 |
| PROTECTION DEGREE | Climair | IP | IPX5D | IPX5D | IPX5D |
| | LeaderJet | IP | IP55 | IP55 | IP55 |
| CLIMAIR DIMENSIONS | WxHxD | mm | 400x705x355 | 558x940x525 | 558x940x525 |
| CLIMAIR WEIGHT | | kg | 50 | 50 | 50 |
| LEADERJET DIMENSIONS | WxHxD | mm | 1.152x735x883 | 1.652x833x883 | 1.152x735x883 |
| LEADERJET OUTLET DUCT SIZE | WxH | mm | 720x410 | 1.140x410 | 720x410 |
| LEADERJET WEIGHT | | kg | 80 | 120 | 80 |
| NOISE LEVEL | Max speed | dB(A) | 63 | 73 | 63 |
| | Min speed | dB(A) | 58 | 65 | 58 |

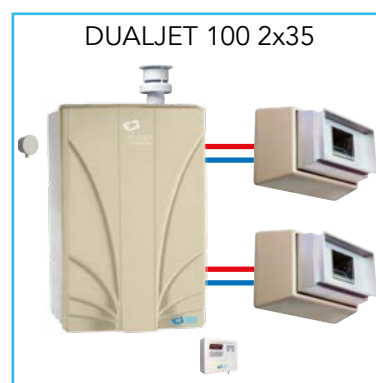
DUAL JET 70 - Range



DUAL JET 70 - Technical Data

| DUALJET MODEL | | | 70 1x70 | 70 2x35 | 70 3x35 |
|--|--------------------|-------------------|---------------|---------------|---------------|
| RATED HEAT CAPACITY [Hi] | Max | kW | 65,0 | 65,0 | 65,0 |
| | Min | kW | 56,0 | 56,0 | 56,0 |
| TOTAL HEAT OUTPUT | Max speed | kW | 51,3 | 62,4 | 62,4 |
| | Min speed | kW | 38,5 | 49,4 | 60 |
| AIR FLOW | Max speed | m ³ /h | 6.600 | 6.600 | 9.900 |
| | Min speed | m ³ /h | 3.800 | 3.800 | 5.700 |
| AIR TEMPERATURE | In | °C | 16 | 16 | 16 |
| | Out | °C | 41 | 47 | 36 |
| HYDRAULIC CONNECTIONS | | | | | |
| CIRCULATION WATER FLOW RATE | | l/h | 2.460 | 2.460 | 2.460 |
| PLANT AVAILABLE HEAD | | m.w.c. | 1,9 | 1,2 | 1,6 |
| CLIMAIR HYDRAULIC CONNECTIONS | Gas | "M | 1 | 1 | 1 |
| | In/Out | "M | 1 | 1 | 1 |
| LEADERJET HYDRAULIC CONNECTIONS | In/Out | "M | 1 | ¾ | ¾ |
| HYDRAULIC CONNECTIONS ELETTRICHE - INGOMBRI | | | | | |
| SUPPLY VOLTAGE | | V/Hz | 230/50 | 230/50 | 230/50 |
| ELECTRICAL POWER CONSUMPTION | Max | W | 800 | 1.100 | 1.500 |
| | Climair | IP | IPX5D | IPX5D | IPX5D |
| PROTECTION DEGREE | LeaderJet | IP | IP55 | IP55 | IP55 |
| | CLIMAIR DIMENSIONS | WxHxD | mm | 800x1.074x664 | 800x1.074x664 |
| CLIMAIR WEIGHT | | kg | 150 | 150 | 150 |
| LEADERJET DIMENSIONS | WxHxD | mm | 1.652x833x883 | 1.152x735x883 | 1.152x735x883 |
| LEADERJET OUTLET DUCT SIZE | WxH | mm | 1.140x410 | 720x410 | 720x410 |
| LEADERJET WEIGHT | | kg | 120 | 80 | 80 |
| NOISE LEVEL | Max speed | dB(A) | 73 | 63 | 63 |
| | Min speed | dB(A) | 65 | 58 | 58 |

DUALJET 100 - Range



DUALJET 100 - Technical Data

| DUALJET MODEL | | | 100 2x70 | 100 2x35 | 100 3x35 | 100 4x35 |
|--|--------------------|-------------------|---------------|---------------|---------------|---------------|
| RATED HEAT CAPACITY [Hi] | Max | kW | 94,0 | 94,0 | 94,0 | 94,0 |
| | Min | kW | 11,8 | 11,8 | 11,8 | 11,8 |
| TOTAL HEAT OUTPUT | Max speed | kW | 90 | 69,4 | 91,1 | 91,1 |
| | Min speed | kW | 70,5 | 50,2 | 71,1 | 88,7 |
| AIR FLOW | Max speed | m ³ /h | 13.200 | 6.600 | 9.900 | 13.200 |
| | Min speed | m ³ /h | 7.600 | 3.800 | 5.700 | 7.600 |
| AIR TEMPERATURE | In | °C | 16 | 16 | 16 | 16 |
| | Out | °C | 37,5 | 50 | 46 | 37,8 |
| HYDRAULIC CONNECTIONS | | | | | | |
| CIRCULATION WATER FLOW RATE | | l/h | 2.801 | 2.801 | 2.801 | 2.801 |
| PLANT AVAILABLE HEAD | | m.w.c. | 1,8 | 0,9 | 1,4 | 1,7 |
| CLIMAIR HYDRAULIC CONNECTIONS | Gas | "M | 1¼ | 1¼ | 1¼ | 1¼ |
| | In/Out | "M | 1¼ | 1¼ | 1¼ | 1¼ |
| LEADERJET HYDRAULIC CONNECTIONS | In/Out | "M | 1 | ¾ | ¾ | ¾ |
| ELECTRICAL CHARACTERISTICS - OVERALL DIMENSIONS | | | | | | |
| SUPPLY VOLTAGE | | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 |
| ELECTRICAL POWER CONSUMPTION | Max | W | 835 | 1.135 | 1.535 | 1.935 |
| | Climair | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| PROTECTION DEGREE | LeaderJet | IP | IP55 | IP55 | IP55 | IP55 |
| | CLIMAIR DIMENSIONS | WxHxD | mm | 800x1.074x664 | 800x1.074x664 | 800x1.074x664 |
| CLIMAIR WEIGHT | | kg | 100 | 100 | 100 | 100 |
| LEADERJET DIMENSIONS | WxHxD | mm | 1.652x833x883 | 1.152x735x883 | 1.152x735x883 | 1.152x735x883 |
| LEADERJET OUTLET DUCT SIZE | WxH | mm | 1.140x410 | 720x410 | 720x410 | 720x410 |
| LEADERJET WEIGHT | | kg | 120 | 80 | 80 | 120 |
| NOISE LEVEL | Max speed | dB(A) | 73 | 63 | 63 | 63 |
| | Min speed | dB(A) | 65 | 58 | 58 | 58 |

DUALJET 115 - Range



DUALJET 115 - Technical Data

| DUALJET MODEL | | | 115 2x70 | 115 3x70 | 115 3x35 | 115 4x35 |
|--|-----------|-------------------|---------------|---------------|---------------|---------------|
| RATED HEAT CAPACITY [Hi] | Max | kW | 107,0 | 107,0 | 107,0 | 107,0 |
| | Min | kW | 15,0 | 15,0 | 15,0 | 15,0 |
| TOTAL HEAT OUTPUT | Max speed | kW | 96,0 | 103,8 | 100,0 | 104,0 |
| | Min speed | kW | 73,7 | 101,9 | 73,9 | 93,9 |
| AIR FLOW | Max speed | m ³ /h | 13.200 | 19.800 | 9.900 | 13.200 |
| | Min speed | m ³ /h | 7.600 | 11.400 | 5.700 | 7.600 |
| AIR TEMPERATURE | In | °C | 16 | 16 | 16 | 16 |
| | Out | °C | 39 | 35 | 49 | 41 |
| HYDRAULIC CONNECTIONS | | | | | | |
| CIRCULATION WATER FLOW RATE | | l/h | 3.578 | 3.573 | 3.578 | 3.578 |
| PLANT AVAILABLE HEAD | | m.w.c. | 4,8 | 4,7 | 3,7 | 4,1 |
| CLIMAIR HYDRAULIC CONNECTIONS | Gas | "M | 1¼ | 1¼ | 1¼ | 1¼ |
| | In/Out | "M | 1¼ | 1¼ | 1¼ | 1¼ |
| LEADERJET HYDRAULIC CONNECTIONS | In/Out | "M | 1 | 1 | ¾ | ¾ |
| ELECTRICAL CHARACTERISTICS - OVERALL DIMENSIONS | | | | | | |
| SUPPLY VOLTAGE | | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 |
| ELECTRICAL POWER CONSUMPTION | Max | W | 1.680 | 2.180 | 1.880 | 2.280 |
| PROTECTION DEGREE | Climair | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| | LeaderJet | IP | IP55 | IP55 | IP55 | IP55 |
| CLIMAIR DIMENSIONS | WxHxD | mm | 800x1.074x664 | 800x1.074x664 | 800x1.074x664 | 800x1.074x664 |
| CLIMAIR WEIGHT | | kg | 110 | 110 | 110 | 110 |
| LEADERJET DIMENSIONS | WxHxD | mm | 1.652x833x883 | 1.652x833x883 | 1.152x735x883 | 1.152x735x883 |
| LEADERJET OUTLET DUCT SIZE | WxH | mm | 1.140x410 | 1.140x410 | 720x410 | 720x410 |
| LEADERJET WEIGHT | | kg | 120 | 120 | 80 | 120 |
| NOISE LEVEL | Max speed | dB(A) | 73 | 73 | 63 | 63 |
| | Min speed | dB(A) | 65 | 65 | 58 | 58 |

Some applications

DUAL JET INSTALLATIONS



For further information on use, plant design, etc., please contact the Comex Group technical department.

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Some applications

DUAL JET INSTALLATIONS



HYBRID SYSTEMS



INDUSTRIAL OVENS



LITHIUM BROMIDE ABSORPTION CHILLER



ENERGY RECUPERATOR



CONDENSING THERMAL POWER STATIONS



OUR MISSION

Founded in 1986 as a manufacturer of industrial furnaces, Comex Group has built its history on a fundamental value: technological innovation. Many years of experience in the heating and air-conditioning sectors, combined with the continuous acquisition of know-how on new technologies and applications, have enabled the company to apply solutions that are always up-to-date using heat pump systems, solar cooling, heat recovery, thermal power stations and, most recently, air sanitation. Research and innovation have distinguished the company in the heating and air-conditioning sector with important advantages for Comex Group customers in the areas of energy saving, safety and environmental protection.

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