

F Series Food Dehydrator



The Energy-Efficient
Machinery Award

First dehydrator for food and agricultural products
that won

The Energy-Efficient Machinery Award
in Japan!

Energy saving

**70% fuel
consumption reduction**



KIHARA
since 1902



Tremendous Energy-saving: Achieved Fuel Consumption Reduction of 70%!

KIHARA food dehydrators significantly reduce energy loss, which is a disadvantage of the one-way fan-type dehydrators. Our food dehydrators circulate and reuse the hot air used for dehydrating the mushrooms, thereby reducing kerosene consumption by 70% (Note 1) from the previous model. Also, they are multi-purpose dehydrators that can also dehydrate other foods.

Note 1: Compared with existing KIHARA product

Lineup of KIHARA Food Dehydrators

*all the photos show the left-hand type.

10

F10 10 trays
(finishing machine)



15

F15 15 trays



30

F30 30 trays



60

F60 60 trays



Operation Panels

SMADIGI AUTO SDT-10A



Dry-bulb temperature --- Auto
(w/o heating function)
Wet-bulb temperature --- Auto
Timer/
Overcurrent prevention/
Abnormal temperature rise
prevention

PROCON CPC-35



Wet-and dry-bulb temperature
program control
Wet-and dry-bulb temperature
display/process time
display/program setting/list
display/abnormal temperature
alarm/automatic error
diagnosis alarm/overcurrent
protection/overheat protection
(for preventing the main unit
from overheating)

SMADIGI MANUAL SDT-10



Dry-bulb temperature --- Auto
(w/o heating function)
Wet-bulb temperature --- Manual
Timer/
Overcurrent prevention/
Abnormal temperature rise
prevention

F10/F15/F30/F60 product specifications

| Model | F 10 (50/60Hz) | | | F 15 (50/60Hz) | | | F 30 (for 60 Hz only) | | | F 30 (for 50 Hz only) | | | F 60 (50/60Hz) | | | |
|-----------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------|---------|-----------------|--------|---------|---------------------------------|-------------------------------------|---------|---------------------------------------|---------------------------------------|---------|--------------------|---------------------------------------|-----|--|
| | H-P | H-S | N-S | H-P | H-S | N-S | H-P | H-S | N-S | H-P | H-S | N-S | H-P | H-S | N-S | |
| Dimensions (height x length x depth) | 1838 x 1293 x 1278 | | | | | | 2060 x 2040 x 1305 | | | 2060 x 2140 x 1305 | | | 2060 x 3500 x 1305 | | | |
| Number of trays | 10 pcs. (w/ deep tray set) | | | 15 pcs. | | | 30 pcs. | | | 60 pcs. | | | | | | |
| Tray size | 1210 x 603 x 100 | | | 1210 x 603 x 47 | | | 1210 x 603 x 47 | | | 1210 x 603 x 47 | | | | | | |
| Product weight (standard package) | 270 kg | | | 520 kg | | | 550 kg | | | 860 kg | | | | | | |
| Capacity of undried material [* Capacity with mushrooms] | 50 - 100 kg | | | 70 - 100 kg | | | 150 - 200 kg | | | 300 - 400 kg | | | | | | |
| Power supply | Single-phase 100 V | | | | | | Single-phase 100 V/200 V Note 1 | | | Single-phase/three-phase 200 V Note 2 | | | | | | |
| Maximum power consumption | 309 W | | | | | | 519 W | | | 929 W | | | | | | |
| Fan | Model | Axial flow, directly-coupled DF20S | | | | | | Axial flow, directly-coupled DF-40S | | | Axial flow, directly-coupled DF-50ESD | | | Axial flow, directly-coupled DF-75S/T | | |
| | Rated voltage/output | 100 V / 200W | | | | | | 100/200V / 400W | | | Single-phase/three-phase 750 W | | | | | |
| | Insulation | Type H | | | | | | | | | | | | | | |
| | Static pressure/air volume | 35 m ² /min | | | | | | 60 m ² /min | | | 120 m ² /min | | | | | |
| Burner | Model | STS-E-CK1 | | | | | | ST-E-15 | | | ST-E-3W | | | | | |
| | Fuel | White kerosene | | | | | | | | | | | | | | |
| | Rated voltage/output | 100 V / 80 W | | | | | | 100/200 V / 90W | | | 200 V / 150 W | | | | | |
| | Combustion capacity | 2.47 L/H(Max) 0.65 G | | | | | | 4.75 L/H(Max) 1.2 G | | | 7.6 L/H(Max) 2.0 G | | | | | |
| | Safety control device | In-oven exhaust/combustion preparation Combustion monitoring Automatic combustion recovery Flame out alarm | | | | | | | | | | | | | | |
| Operation panel | Model | CPC-35 | SDT-10A | SDT-10 | CPC-35 | SDT-10A | SDT-10 | CPC-35 | SDT-10A | SDT-10 | CPC-35 | SDT-10A | SDT-10 | | | |
| | Program function | ○ | — | — | ○ | — | — | ○ | — | — | ○ | — | — | | | |
| | Dry-bulb control | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | |
| | Wet-bulb control | ○ | ○ | △ | ○ | ○ | △ | ○ | ○ | △ | ○ | ○ | △ | | | |
| | Heating | ○ | — | — | ○ | — | — | ○ | — | — | ○ | — | — | | | |
| | Suction/exhaust | ○ | ○ | △ | ○ | ○ | △ | ○ | ○ | △ | ○ | ○ | △ | | | |
| | Timer | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | |
| | Power failure recovery | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | |
| ○ . . . Automatic or function provided △ . . . Manual or display only — . . . N/A | | | | | | | | | | | | | | | | |

Note 1 200V power supply for F30 series: Single phase only

Note 2 Power supply for F60 series in 50 Hz regions: Three-phase 200 V only

○ Consultation is required if you want to add or change specifications.

○ Consultation is required if you intend to use this machine in cold regions.



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