

# Mbsm.pro, Compressor , s36G, 1/10 hp, 1ph 220v/50hz, R134a, 32g, water-cooler, BLY-F/950

Category: compressor

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| Information                    | Value       |
|--------------------------------|-------------|
| Model                          | BLY-F (905) |
| Rated Voltage                  | 220-240V~   |
| Rated Frequency                | 50/60Hz     |
| Heating Power                  | 450W        |
| Total Power                    | 550W        |
| Maximum Rated Wattage of Lamps | 0.5W        |
| Cooling Capacity               | 1.5L/h      |
| Cooling Consumption            | 0.100Kwh/H  |
| Rated Cooling Current          | 0.8A        |
| Refrigerant                    | R134a/32g   |
| Climate Class                  | T           |
| Protection Class               | I           |
| Foam                           | EPS         |
| Waterproof Degree              | IPX0        |
| Made in                        | China       |

## Water Dispenser / Mini Fridge Compressor (1/10HP)

Refrigeration Compressor Type Reciprocating Compressor

Refrigerant R134A

Usage Water Dispenser / Small Fridge / Minibar / etc

|                    |                     |
|--------------------|---------------------|
| Warranty           | N/A                 |
| Voltage            | 220-240V / 50Hz     |
| Displacement       | 3.6 cm <sup>3</sup> |
| Model No.          | S36G / QD36         |
| Cooling Power (W)  | 80W                 |
| Cooling Power (HP) | 1/10 HP             |

Small refrigeration compressor mainly used in:

- Water Dispenser (cooling cabinet models)
- Small Refrigerator / Mini Bar / Ice Machines
- Other small refrigerating equipment

Cooling Power: 85W (1/10 HP)

Electricity required: 220-240V / 50Hz

## 1. Compressor (Model S36G)

- **Purpose:** The core component for pressurizing refrigerant in a cooling cycle.
  - **Model S36G:** Likely a specific compressor model (possibly from a brand like Secop, Danfoss, or a regional manufacturer). Verify with manufacturer documentation for exact specs.
  - **Application:** Small-scale systems (e.g., commercial water coolers, medical devices, or compact refrigeration) due to the small refrigerant charge.
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## 2. Refrigerant (R134a, 32g)

- **R134a:** A common hydrofluorocarbon (HFC) refrigerant used in medium-temperature systems (e.g., refrigerators, AC units, water coolers).
  - **32g Charge:** Indicates a small system, typical for portable or compact units. Ensure the charge matches manufacturer specifications to avoid inefficiency or damage.
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## 3. Water-Cooler System

- **Water-Cooled Condenser:** Uses water (instead of air) to dissipate heat, improving efficiency. Requires a water supply, pump, and possibly a cooling tower.
  - **Applications:** Often found in commercial settings (e.g., water dispensers, industrial chillers, or high-efficiency HVAC systems).
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## 4. BLY-F/950

- Likely a **component model**, such as:
    - **Filter drier:** Removes moisture/contaminants from refrigerant.
    - **Pressure switch:** Safety device to control system pressure.
    - **Control board/Valve:** Part of the system's electrical or flow regulation.
    - Check manufacturer manuals or suppliers for exact function.
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# Key Considerations

1. **Compatibility:** Ensure the compressor (S36G) is designed for R134a and water-cooled operation.
  2. **Refrigerant Charge:** Confirm 32g is correct (undercharging/overcharging affects performance).
  3. **Water Cooling:** Check for scale buildup, water flow rate, and pump functionality.
  4. **BLY-F/950 Replacement:** Cross-reference with OEM parts or contact the system manufacturer.
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## Troubleshooting Tips

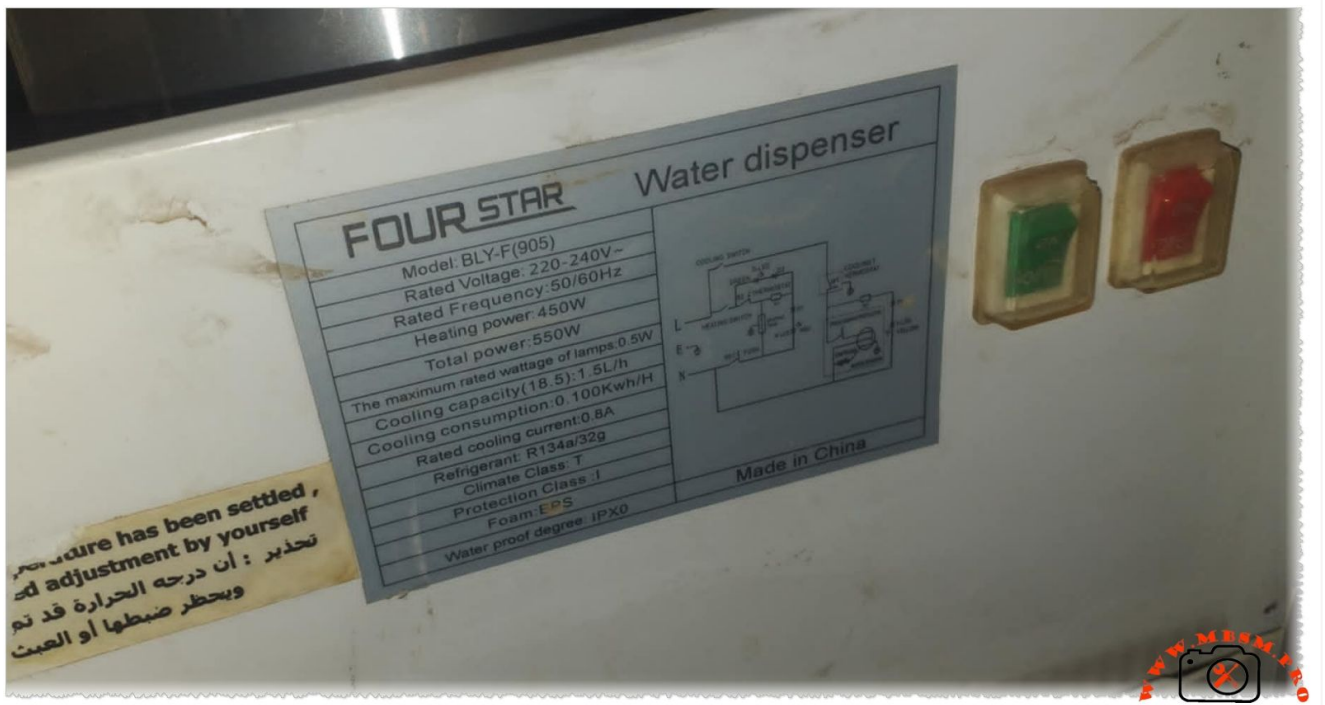
- **Low Cooling Efficiency:** Check refrigerant charge, water flow, or condenser cleanliness.
- **Component Failure:** Test the BLY-F/950 part (e.g., continuity for switches, clogging in filter driers).
- **Noise/Leaks:** Inspect the compressor and refrigerant lines.

**Products Introduction:**

| Voltage / frequency(V/Hz) | Horsepower (hp)                  | Model   | Displacement (cc/rev) | Motor type | Cooling capacity+/-5% ASHRAE(-23.3°C) |        |         | Input Power +/-5% w | COP+/-7% ASHRAE(-23.3°C) |      |         | Cooling |
|---------------------------|----------------------------------|---------|-----------------------|------------|---------------------------------------|--------|---------|---------------------|--------------------------|------|---------|---------|
|                           |                                  |         |                       |            | (kcal/h)                              | (W)    | (Btu/h) |                     | (kcal/h)                 | (W)  | (Btu/h) |         |
|                           |                                  |         |                       |            | 220-240V~<br>50/60Hz                  | 1/14hp | ASV20H  | 2.0cc               | RSIR                     | 41   | 48      |         |
|                           | 1/13hp                           | ASV25H  | 2.5cc                 | RSIR       | 50                                    | 58     | 198.00  | 68.00               | 0.73                     | 0.85 | 2.9     | ST      |
|                           | 1/12hp                           | ASV30H  | 3.0cc                 | RSIR       | 60                                    | 70     | 239.00  | 82.00               | 0.73                     | 0.85 | 2.9     | ST      |
|                           | 1/12hp                           | S30G    | 3.0cc                 | RSIR       | 56                                    | 65     | 222.00  | 72.00               | 0.77                     | 0.9  | 3.07    | ST      |
|                           | 1/10hp                           | S36G    | 3.6cc                 | RSIR       | 69                                    | 80     | 273.00  | 89.00               | 0.77                     | 0.9  | 3.07    | ST      |
|                           | 1/8hp                            | ASW43H  | 4.3cc                 | RSIR       | 106                                   | 123    | 420.00  | 98.00               | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/6hp                            | ASW53H  | 5.3cc                 | RSIR       | 120                                   | 140    | 478.00  | 112.00              | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/5hp                            | ASW65H  | 6.5cc                 | RSIR       | 143                                   | 165    | 566.00  | 132.00              | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/4hp                            | ASW75H  | 7.5cc                 | RSIR       | 168                                   | 190    | 665.00  | 152.00              | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/4+hp                           | ASQ91H  | 9.1cc                 | RSIR       | 189                                   | 220    | 751.00  | 176.00              | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/3hp                            | ASQ110H | 11.0cc                | RSIR       | 241                                   | 280    | 955.00  | 215.00              | 1.11                     | 1.3  | 4.43    | ST      |
|                           | 1/3+hp                           | ASQ128H | 12.8cc                | RSIR       | 280                                   | 326    | 1112.00 | 251.00              | 1.11                     | 1.3  | 4.43    | ST      |
| 115-127V/60Hz             | 1/14hp                           | ASV20HD | 2.0cc                 | RSIR       | 47                                    | 55     | 188.00  | 65.00               | 0.73                     | 0.85 | 2.9     | ST      |
|                           | 1/10hp                           | ASV25HD | 2.5cc                 | RSIR       | 56                                    | 65     | 222.00  | 78.00               | 0.77                     | 0.9  | 3.07    | ST      |
|                           | 1/12hp                           | ASV30HD | 3.0cc                 | RSIR       | 69                                    | 80     | 273.00  | 100.00              | 0.77                     | 0.9  | 3.07    | ST      |
|                           | 1/8hp                            | ASW43HD | 4.3cc                 | RSIR       | 116                                   | 135    | 460.00  | 108.00              | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/6hp                            | ASW53HD | 5.3cc                 | RSIR       | 138                                   | 160    | 546.00  | 128.00              | 1.08                     | 1.25 | 4.27    | ST      |
|                           | 1/5hp                            | ASW65HD | 6.5cc                 | RSIR       | 167                                   | 194    | 662.00  | 147.00              | 1.14                     | 1.32 | 4.5     | ST      |
|                           | 1/4hp                            | ASW75HD | 7.5cc                 | RSIR       | 196                                   | 228    | 777.00  | 173.00              | 1.14                     | 1.32 | 4.5     | ST      |
| FC:Fancooling             | RSIR:ResistanceStartInductionRun |         |                       |            | EvaporatingTemp.: -23.3°C(-10°F)      |        |         | 1watt=3.41Btu/Hr    |                          |      |         |         |
| OC:Oilcooling             | RSCR:ResistanceStartCapacitorRun |         |                       |            | CondensingTemp.: 54.4°C(130°F)        |        |         | 1watt=0.86Kcal/Hr   |                          |      |         |         |
| ST:Static                 | CSIR:CapacitorStartInductionRun  |         |                       |            | GasSuperheatedto: 32.2°C(90°F)        |        |         | 1Kcal/Hr=3.97Btu/Hr |                          |      |         |         |
|                           | CSR:CapacitorStartCapacitorRun   |         |                       |            | Liquidsub-cooledto: 32.2°C(90°F)      |        |         |                     |                          |      |         |         |
|                           |                                  |         |                       |            | AmbientTemp.: 32.2°C(90°F)            |        |         |                     |                          |      |         |         |

As a result of a self-policy of constant development, technical specifications may be subject to change.





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