

LUPB
BITZER PARALLEL UNITS

**BITZER RECIPROCAL COMPRESSOR
PARALLEL UNITS**



LUTHER-BACH HEAT EXCHANGER CO.,LTD

BASIC VERSION

PRODUCTS FEATURES

LUPB series reciprocating unit is a set of refrigeration units equipped with high-quality Bitzer compressors, with various configuration types to meet the diverse needs of customers to the greatest extent.

LUPB series unit is equipped with 2~4 Bitzer compressors.

INTRODUCTION

With Bitzer semi-hermetic reciprocating compressor, high efficient, long service life, little noise and little shake.

Save investment, to reduce first-time equipment cost.

Save energy and provide cooling capacity on demand, which can save energy by more than 20% compared with a single independent unit.

Safe processing, simultaneously monitoring and controlling processing data, with damage warning function to insure processing security.

Compact structure, multi compressors concentrated installed, highly integrated, save space and construction period. Full automation, equip with Dixell or Every Control advanced controller for multi-compressor condensing unit.

Multi classes of power adjustment, can efficiently save power cost.

Full protection, together with multi-time warning-to-lock function, function of showing failure code, to advanced reliability and maintainability.

Automatic processing balances, rapidly extend the service period of the whole unit.

The unit includes medium and low temperature series, suitable for a wide range of storage temperature.

APPLICATION

Refrigeration Industry, Cold room projects

Low temperature shipping center

Supermarket cold chain

Chemical Industry

TYPE DESIGNATION CODE

| | | | | | |
|------|---|---|----|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| LUPB | 3 | A | 30 | M | Y |

1. Bitzer Semi-hermetic Reciprocating Compressor Parallel Units

2. Compressor Quantity

3. A: Air cooled ; W: Water cooled

4. Compressor HP

5. M: Medium And High Temperature;
L: Low Temperature

6. None: R22 ; Y: R404A/R507A

TECHNICAL DATA

LOW TEMP. APPLICATION AIR COOLED

| Unit Model | Com. Model | Com. Cuartity | Condensing temp.(°C) | Evaporation Temp. (°C) | | | | | | | | | | |
|-------------|----------------|----------------|----------------------|----------------------------------|------|------|------|------|------|------|------|-------|------|------|
| | | | | -20 | -25 | -30 | -35 | -40 | | | | | | |
| | | | | Cooling Capacity/Power Input(kw) | | | | | | | | | | |
| LUPB-2A18LY | 4TES-9 (9HP) | 2 | 35 | 30.1 | 12.3 | 23.3 | 10.9 | 19.7 | 10.0 | 16.3 | 8.4 | 8.8 | 6.7 | |
| | | | 40 | 28.0 | 12.9 | 21.4 | 11.3 | 18.4 | 10.7 | 14.3 | 8.7 | 7.7 | 7.0 | |
| | | | 45 | 25.7 | 13.3 | 19.9 | 11.9 | 16.7 | 11.1 | 13.2 | 9.5 | 6.5 | 7.1 | |
| LUPB-3A27LY | | 3 | 35 | 45.2 | 18.5 | 34.9 | 16.4 | 29.5 | 15.1 | 25.4 | 14.2 | 13.2 | 10.3 | |
| | | | 40 | 42.0 | 19.3 | 32.2 | 16.9 | 27.7 | 16.1 | 20.3 | 12.3 | 11.5 | 10.5 | |
| | | | 45 | 38.8 | 20.0 | 29.9 | 17.9 | 25.1 | 16.5 | 15.4 | 13.2 | 9.8 | 10.6 | |
| LUPB-4A36LY | | 4 | 35 | 60.3 | 24.6 | 46.6 | 21.8 | 39.3 | 20.1 | 25.7 | 15.4 | 14.6 | 13.7 | |
| | | | 40 | 56.0 | 25.7 | 42.9 | 22.5 | 36.8 | 21.4 | 25.7 | 15.9 | 15.3 | 14.1 | |
| | | | 45 | 51.7 | 26.7 | 39.8 | 23.8 | 33.5 | 22.1 | 24.7 | 18.2 | 13.1 | 14.2 | |
| LUPB-2A24LY | | 4TES-12 (12HP) | 2 | 35 | 32.9 | 13.7 | 24.9 | 12.1 | 20.8 | 11.1 | 17.4 | 9.3 | 10.1 | 7.9 |
| | | | | 40 | 30.2 | 14.2 | 22.7 | 12.4 | 18.8 | 11.2 | 13.6 | 10.1 | 8.8 | 8.0 |
| | | | | 45 | 27.6 | 14.6 | 20.5 | 12.6 | 16.8 | 11.3 | 13.2 | 9.1 | 7.6 | 8.8 |
| LUPB-3A36LY | 3 | | 35 | 49.3 | 20.6 | 37.4 | 18.0 | 31.2 | 16.6 | 25.4 | 13.2 | 15.1 | 11.9 | |
| | | | 40 | 45.3 | 21.3 | 34.1 | 18.5 | 28.2 | 16.8 | 21.7 | 15.4 | 13.3 | 21.1 | |
| | | | 45 | 41.3 | 21.9 | 30.7 | 18.8 | 25.2 | 17.1 | 18.9 | 15.4 | 11.4 | 12.1 | |
| LUPB-4A48LY | 4 | | 35 | 65.7 | 27.4 | 49.8 | 24.1 | 41.6 | 22.1 | 35.2 | 18.2 | 20.1 | 10.6 | |
| | | | 40 | 60.4 | 28.4 | 45.4 | 24.7 | 37.6 | 22.4 | 37.6 | 22.4 | 17.6 | 16.0 | |
| | | | 45 | 55.1 | 29.5 | 41.0 | 25.2 | 26.3 | 22.7 | 26.3 | 22.7 | 15.2 | 16.2 | |
| LUPB-2A28LY | 4TES-14 (14HP) | | 2 | 35 | 40.6 | 16.5 | 31.3 | 14.6 | 24.9 | 13.4 | 24.9 | 13.4 | 11.6 | 9.3 |
| | | | | 40 | 37.6 | 17.2 | 28.7 | 15.0 | 22.7 | 14.1 | 22.7 | 14.1 | 10.3 | 9.5 |
| | | | | 45 | 34.7 | 17.8 | 27.0 | 15.8 | 24.8 | 14.5 | 24.8 | 14.5 | 8.8 | 9.6 |
| LUPB-3A42LY | | 3 | 35 | 60.9 | 24.7 | 46.9 | 21.8 | 34.0 | 20.0 | 22.6 | 20.0 | 17.5 | 14.0 | |
| | | | 40 | 56.4 | 25.8 | 43.1 | 22.5 | 37.3 | 21.2 | 37.3 | 21.2 | 15.5 | 14.2 | |
| | | | 45 | 52.0 | 26.7 | 40.5 | 23.6 | 34.0 | 21.7 | 34.0 | 21.7 | 13.3 | 14.4 | |
| LUPB-4A56LY | | 4 | 35 | 81.2 | 33.0 | 62.5 | 29.1 | 52.7 | 26.7 | 52.7 | 26.7 | 23.3 | 18.6 | |
| | | | 40 | 75.2 | 34.4 | 57.4 | 30.0 | 49.7 | 28.2 | 49.7 | 28.2 | 20.6 | 19.0 | |
| | | | 45 | 69.4 | 35.6 | 54.0 | 31.5 | 45.3 | 28.9 | 45.3 | 28.9 | 17.8 | 19.2 | |
| LUPB-2A36LY | | 4TES-18 (18HP) | 2 | 35 | 54.0 | 24.9 | 42.2 | 19.5 | 35.8 | 18.1 | 35.8 | 18.1 | 14.0 | 11.9 |
| | | | | 40 | 50.2 | 22.8 | 38.9 | 20.2 | 31.3 | 18.4 | 31.3 | 18.4 | 12.3 | 11.8 |
| | | | | 45 | 46.4 | 23.6 | 34.3 | 20.8 | 28.7 | 19.0 | 28.7 | 19.0 | 10.7 | 11.7 |
| LUPB-3A54LY | 3 | | 35 | 81.0 | 32.8 | 63.3 | 29.3 | 53.7 | 27.2 | 53.7 | 27.2 | 80.1 | 17.8 | |
| | | | 40 | 75.3 | 34.2 | 58.2 | 30.3 | 47.0 | 27.7 | 47.0 | 27.7 | 75.0 | 17.7 | |
| | | | 45 | 69.6 | 35.3 | 52.5 | 31.3 | 43.0 | 28.6 | 43.0 | 28.6 | 67.2 | 17.5 | |
| LUPB-4A72LY | 4 | | 35 | 108.0 | 43.7 | 84.4 | 39.0 | 71.7 | 36.2 | 71.7 | 36.2 | 106.8 | 23.8 | |
| | | | 40 | 100.4 | 45.6 | 77.7 | 40.4 | 62.6 | 36.9 | 62.6 | 36.9 | 100.0 | 23.6 | |
| | | | 45 | 92.8 | 47.1 | 68.7 | 41.7 | 57.3 | 38.2 | 57.3 | 38.2 | 89.6 | 23.4 | |

TECHNICAL DATA

LOW TEMP. APPLICATION AIR COOLED

| Unit Model | Com. Model | Com. Cuartity | Condensing temp.(°C) | Evaporation Temp. (°C) | | | | | | | | | | |
|--------------|------------------|------------------|----------------------|----------------------------------|------|-------|------|-------|------|------|------|------|------|------|
| | | | | -20 | -25 | -30 | -35 | -40 | | | | | | |
| | | | | Cooling Capacity/Power Input(kw) | | | | | | | | | | |
| LUPB-2A46LY | 4GE-23 (23HP) | 2 | 35 | 64.4 | 26.2 | 50.6 | 23.6 | 43.2 | 21.9 | 16.4 | 14.3 | 16.4 | 14.3 | |
| | | | 40 | 60.0 | 27.5 | 47.0 | 24.5 | 36.3 | 21.9 | 14.4 | 14.2 | 14.4 | 14.2 | |
| | | | 45 | 56.0 | 28.6 | 39.8 | 24.9 | 33.3 | 22.9 | 12.6 | 14.1 | 12.6 | 14.1 | |
| LUPB-3A69LY | | 3 | 35 | 96.6 | 39.3 | 75.9 | 35.3 | 64.8 | 32.9 | 24.6 | 21.4 | 24.6 | 21.4 | |
| | | | 40 | 90.0 | 41.2 | 70.5 | 36.8 | 54.5 | 32.9 | 21.5 | 21.4 | 21.5 | 21.4 | |
| | | | 45 | 84.0 | 43.0 | 59.8 | 37.5 | 50.0 | 34.4 | 18.8 | 21.3 | 18.8 | 21.3 | |
| LUPB-4A92LY | | 4 | 35 | 128.8 | 52.4 | 101.2 | 47.1 | 86.4 | 43.9 | 32.8 | 28.6 | 32.8 | 28.6 | |
| | | | 40 | 120.0 | 55.0 | 94.0 | 49.1 | 72.6 | 43.9 | 28.7 | 28.6 | 28.7 | 28.6 | |
| | | | 45 | 112.0 | 53.7 | 79.7 | 49.9 | 66.7 | 45.9 | 25.1 | 28.4 | 25.1 | 28.4 | |
| LUPB-2A50LY | | 6JE-25 (25HP) | 2 | 35 | 69.6 | 28.0 | 54.2 | 25.0 | 46.0 | 23.2 | 18.2 | 15.4 | 18.2 | 15.4 |
| | | | | 40 | 64.6 | 29.1 | 50.0 | 25.8 | 40.6 | 23.8 | 15.9 | 15.2 | 15.9 | 15.2 |
| | | | | 45 | 59.8 | 30.1 | 44.4 | 26.9 | 37.1 | 24.6 | 13.9 | 15.1 | 13.9 | 15.1 |
| LUPB-3A75LY | 3 | | 35 | 104.4 | 41.9 | 81.3 | 37.5 | 69.0 | 34.8 | 27.2 | 23.1 | 27.2 | 23.1 | |
| | | | 40 | 96.9 | 43.7 | 75.0 | 38.7 | 60.9 | 35.7 | 23.8 | 22.9 | 23.8 | 22.9 | |
| | | | 45 | 89.7 | 45.1 | 66.6 | 40.4 | 55.7 | 36.9 | 20.9 | 22.6 | 20.9 | 22.6 | |
| LUPB-4A100LY | 4 | | 35 | 139.2 | 55.9 | 108.4 | 50.0 | 92.0 | 46.4 | 36.3 | 30.8 | 36.3 | 30.8 | |
| | | | 40 | 129.2 | 58.2 | 100.0 | 51.6 | 81.2 | 47.6 | 31.8 | 30.5 | 31.8 | 30.5 | |
| | | | 45 | 119.6 | 60.2 | 88.8 | 53.8 | 74.2 | 49.2 | 27.8 | 30.1 | 27.8 | 30.1 | |
| LUPB-2A56LY | 6HE-28 (28HP) | | 2 | 35 | 82.6 | 33.3 | 64.6 | 29.9 | 55.2 | 27.8 | 21.1 | 17.9 | 21.1 | 17.9 |
| | | | | 40 | 77.0 | 34.9 | 59.8 | 31.0 | 47.0 | 27.6 | 18.4 | 17.7 | 18.4 | 17.7 |
| | | | | 45 | 71.4 | 36.2 | 51.6 | 31.2 | 43.0 | 28.5 | 16.1 | 17.5 | 16.1 | 17.5 |
| LUPB-3A84LY | | 3 | 35 | 123.9 | 50.0 | 96.9 | 44.9 | 82.8 | 41.7 | 31.6 | 26.9 | 31.6 | 26.9 | |
| | | | 40 | 115.5 | 52.3 | 89.7 | 46.5 | 70.5 | 41.5 | 27.7 | 26.6 | 27.7 | 26.6 | |
| | | | 45 | 101.7 | 54.3 | 77.4 | 46.8 | 64.5 | 42.8 | 24.2 | 26.2 | 24.2 | 26.2 | |
| LUPB-4A112LY | | 4 | 35 | 165.2 | 66.7 | 129.2 | 59.8 | 110.4 | 55.6 | 42.2 | 35.8 | 42.2 | 35.8 | |
| | | | 40 | 154.0 | 69.7 | 119.6 | 62.0 | 94.0 | 55.3 | 36.9 | 35.4 | 36.9 | 35.4 | |
| | | | 45 | 142.8 | 72.4 | 103.2 | 62.4 | 86.0 | 57.1 | 32.2 | 34.9 | 32.2 | 34.9 | |
| LUPB-2A68LY | | 6JE-34 (34HP) | 2 | 35 | 95.4 | 38.7 | 74.6 | 34.7 | 63.8 | 32.3 | 24.6 | 21.4 | 24.6 | 21.4 |
| | | | | 40 | 88.8 | 40.6 | 69.2 | 36.1 | 54.6 | 32.9 | 21.5 | 21.3 | 21.5 | 21.3 |
| | | | | 45 | 82.6 | 42.2 | 59.8 | 37.4 | 50.0 | 34.4 | 18.8 | 21.3 | 18.8 | 21.3 |
| LUPB-3A102LY | 3 | | 35 | 143.1 | 58.1 | 111.9 | 52.1 | 95.7 | 48.4 | 36.9 | 32.1 | 36.9 | 32.1 | |
| | | | 40 | 133.2 | 60.9 | 103.8 | 54.2 | 81.9 | 49.4 | 32.3 | 32.0 | 32.3 | 32.0 | |
| | | | 45 | 123.9 | 63.3 | 89.7 | 56.2 | 75.0 | 51.5 | 28.2 | 31.9 | 28.2 | 31.9 | |
| LUPB-4A136LY | 4 | | 35 | 190.8 | 77.5 | 149.2 | 69.4 | 127.6 | 64.5 | 49.1 | 42.8 | 49.1 | 42.8 | |
| | | | 40 | 177.6 | 81.2 | 138.4 | 72.2 | 109.2 | 65.8 | 43.1 | 42.8 | 43.1 | 42.8 | |
| | | | 45 | 165.2 | 84.4 | 119.6 | 74.8 | 100.0 | 68.7 | 37.6 | 42.5 | 37.6 | 42.5 | |

TECHNICAL DATA

MEDIUM TEMP. APPLICATION AIR COOLED

| Unit Model | Com. Model | Com. Cuartity | Condensing temp.(°C) | Evaporation Temp. (°C) | | | | | | | | | | |
|--------------|-------------------|-------------------|----------------------|----------------------------------|------|-------|------|-------|-------|-------|-------|-------|-------|------|
| | | | | -20 | -25 | -30 | -35 | -40 | | | | | | |
| | | | | Cooling Capacity/Power Input(kw) | | | | | | | | | | |
| LUPB-2A20MY | 4VES-10 (10HP) | 2 | 35 | 31.5 | 11.0 | 39.3 | 12.0 | 48.0 | 12.7 | 58.8 | 13.3 | 70.8 | 13.7 | |
| | | | 40 | 29.4 | 11.6 | 36.8 | 12.7 | 45.4 | 13.6 | 55.4 | 14.4 | 67.0 | 15.0 | |
| | | | 45 | 27.2 | 10.2 | 34.4 | 13.3 | 42.6 | 14.4 | 52.2 | 15.4 | 63.0 | 16.2 | |
| LUPB-3A30MY | | 3 | 35 | 47.3 | 16.5 | 59.0 | 17.9 | 72.6 | 19.1 | 88.2 | 20.0 | 106.2 | 20.6 | |
| | | | 40 | 44.1 | 17.3 | 55.3 | 19.0 | 68.1 | 20.4 | 83.1 | 21.6 | 100.5 | 22.5 | |
| | | | 45 | 40.9 | 18.1 | 51.5 | 20.0 | 63.9 | 21.6 | 78.3 | 23.1 | 94.5 | 24.3 | |
| LUPB-4A40MY | | 4 | 35 | 63.0 | 22.0 | 78.8 | 23.9 | 96.8 | 25.5 | 117.6 | 26.6 | 141.6 | 27.4 | |
| | | | 40 | 58.8 | 23.1 | 73.7 | 25.3 | 90.8 | 27.2 | 110.8 | 28.8 | 134.0 | 30.0 | |
| | | | 45 | 54.5 | 24.1 | 68.7 | 26.6 | 85.2 | 28.8 | 104.4 | 30.8 | 126.0 | 32.4 | |
| LUPB-2A30MY | | 4PES-15 (15HP) | 2 | 35 | 43.6 | 15.2 | 54.4 | 16.6 | 67.0 | 17.8 | 81.6 | 18.6 | 98.2 | 19.2 |
| | | | | 40 | 40.4 | 16.0 | 50.8 | 17.8 | 63.0 | 19.0 | 75.8 | 20.1 | 92.8 | 21.0 |
| | | | | 45 | 37.5 | 16.6 | 47.4 | 18.5 | 58.8 | 20.1 | 72.2 | 21.5 | 87.4 | 22.7 |
| LUPB-3A45MY | 3 | | 35 | 65.4 | 22.8 | 81.6 | 24.9 | 100.5 | 26.6 | 122.4 | 27.9 | 147.3 | 28.7 | |
| | | | 40 | 60.6 | 24.0 | 76.2 | 26.4 | 94.5 | 28.5 | 115.2 | 30.2 | 139.2 | 31.4 | |
| | | | 45 | 56.2 | 25.0 | 71.1 | 27.7 | 88.2 | 30.2 | 108.3 | 32.3 | 131.1 | 34.0 | |
| LUPB-4A60MY | 4 | | 35 | 87.2 | 30.4 | 108.8 | 33.2 | 134.0 | 35.5 | 163.2 | 37.2 | 196.4 | 38.8 | |
| | | | 40 | 80.8 | 32.0 | 101.6 | 35.2 | 126.0 | 38.0 | 153.6 | 40.2 | 185.6 | 41.9 | |
| | | | 45 | 74.9 | 33.3 | 94.8 | 36.9 | 117.6 | 40.2 | 144.4 | 43.0 | 174.8 | 45.3 | |
| LUPB-2A40MY | 4NES-20 (20HP) | | 2 | 35 | 51.4 | 18.0 | 64.2 | 19.5 | 78.8 | 20.8 | 95.6 | 21.7 | 115.2 | 22.3 |
| | | | | 40 | 48.0 | 18.9 | 60.2 | 20.7 | 74.2 | 22.2 | 90.4 | 23.5 | 108.8 | 24.5 |
| | | | | 45 | 44.6 | 19.7 | 56.2 | 21.8 | 69.6 | 23.6 | 85.0 | 25.2 | 102.6 | 26.5 |
| LUPB-3A60MY | | 3 | 35 | 77.1 | 27.0 | 96.3 | 29.3 | 118.2 | 31.1 | 143.4 | 32.6 | 172.8 | 33.5 | |
| | | | 40 | 72.0 | 28.4 | 90.3 | 31.0 | 111.3 | 33.4 | 135.6 | 35.3 | 163.2 | 36.7 | |
| | | | 45 | 66.9 | 29.6 | 84.3 | 32.6 | 104.4 | 35.4 | 127.5 | 37.8 | 153.9 | 39.7 | |
| LUPB-4A80MY | | 4 | 35 | 102.8 | 36.0 | 128.4 | 39.0 | 157.6 | 41.5 | 191.2 | 43.4 | 230.4 | 44.6 | |
| | | | 40 | 96.0 | 37.8 | 120.4 | 41.4 | 148.4 | 44.5 | 180.8 | 47.0 | 217.6 | 48.9 | |
| | | | 45 | 89.2 | 39.4 | 112.4 | 43.5 | 139.2 | 47.2 | 170.0 | 50.4 | 205.2 | 53.0 | |
| LUPB-2A50MY | | 4HES-25 (25HP) | 2 | 35 | 68.8 | 24.2 | 85.4 | 26.1 | 104.6 | 27.7 | 126.8 | 29.0 | 152.2 | 29.7 |
| | | | | 40 | 64.4 | 25.5 | 80.4 | 27.8 | 98.8 | 29.8 | 120.0 | 31.4 | 144.2 | 32.6 |
| | | | | 45 | 60.0 | 26.7 | 75.2 | 29.3 | 92.8 | 31.7 | 113.0 | 33.8 | 136.2 | 35.4 |
| LUPB-3A75MY | 3 | | 35 | 103.2 | 36.2 | 128.1 | 39.2 | 156.9 | 41.6 | 190.2 | 43.4 | 228.3 | 44.6 | |
| | | | 40 | 96.6 | 38.2 | 120.6 | 41.6 | 148.2 | 44.7 | 180.0 | 47.1 | 216.3 | 48.9 | |
| | | | 45 | 90.0 | 40.0 | 112.8 | 44.0 | 139.2 | 47.6 | 169.5 | 50.7 | 204.3 | 53.1 | |
| LUPB-4A100MY | 4 | | 35 | 137.6 | 48.3 | 170.8 | 52.2 | 209.2 | 55.5 | 253.6 | 57.9 | 304.4 | 59.4 | |
| | | | 40 | 128.8 | 50.9 | 160.8 | 55.5 | 197.6 | 59.6 | 240.0 | 62.8 | 288.4 | 65.2 | |
| | | | 45 | 120.0 | 53.3 | 150.4 | 58.6 | 185.6 | 63.4 | 226.0 | 67.6 | 272.4 | 70.8 | |

TECHNICAL DATA

MEDIUM TEMP. APPLICATION AIR COOLED

| Unit Model | Com. Model | Com. Cuartity | Condensing temp.(°C) | Evaporation Temp. (°C) | | | | | | | | | | |
|--------------|------------------|------------------|----------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | | -20 | -25 | -30 | -35 | -40 | | | | | | |
| | | | | Cooling Capacity/Power Input(kw) | | | | | | | | | | |
| LUPB-2A60MY | 4GE-30 (30HP) | 2 | 35 | 80.0 | 27.9 | 99.0 | 30.1 | 121.2 | 31.9 | 144.6 | 33.3 | 176.0 | 34.1 | |
| | | | 40 | 75.0 | 29.4 | 93.2 | 32.0 | 114.4 | 34.3 | 138.8 | 36.1 | 166.8 | 37.5 | |
| | | | 45 | 70.0 | 30.9 | 87.4 | 33.9 | 107.6 | 36.6 | 131.0 | 38.9 | 157.6 | 40.8 | |
| LUPB-3A90MY | | 3 | 35 | 120.0 | 41.8 | 148.5 | 45.1 | 181.8 | 47.8 | 219.9 | 49.9 | 264.0 | 51.1 | |
| | | | 40 | 112.5 | 44.1 | 139.9 | 48.0 | 171.6 | 51.4 | 208.2 | 54.2 | 250.2 | 56.2 | |
| | | | 45 | 105.0 | 46.3 | 131.1 | 50.8 | 161.4 | 54.8 | 196.5 | 58.3 | 236.4 | 61.2 | |
| LUPB-4A120MY | | 4 | 35 | 160.0 | 55.7 | 198.0 | 60.1 | 242.4 | 63.8 | 293.2 | 66.5 | 352.0 | 68.2 | |
| | | | 40 | 150.0 | 58.8 | 186.4 | 64.0 | 228.8 | 68.6 | 277.6 | 72.2 | 333.6 | 74.9 | |
| | | | 45 | 140.0 | 61.8 | 174.8 | 67.7 | 215.2 | 73.1 | 262.0 | 77.8 | 315.2 | 81.6 | |
| LUPB-2A70MY | | 4HE-35 (35HP) | 2 | 35 | 103.2 | 36.3 | 128.2 | 39.2 | 157.0 | 41.8 | 190.2 | 43.6 | 228.4 | 44.8 |
| | | | | 40 | 96.6 | 38.2 | 120.4 | 41.8 | 148.0 | 44.8 | 179.8 | 47.4 | 216.4 | 49.2 |
| | | | | 45 | 90.0 | 40.0 | 112.8 | 44.2 | 139.2 | 47.8 | 169.4 | 51.0 | 204.4 | 53.6 |
| LUPB-3A105MY | 3 | | 35 | 154.8 | 54.4 | 192.3 | 58.9 | 235.5 | 62.7 | 285.3 | 65.4 | 342.6 | 67.2 | |
| | | | 40 | 144.9 | 57.4 | 180.6 | 62.7 | 222.0 | 67.2 | 269.7 | 71.1 | 324.6 | 73.8 | |
| | | | 45 | 135.0 | 60.0 | 159.2 | 66.3 | 208.8 | 71.7 | 254.1 | 76.5 | 306.6 | 80.4 | |
| LUPB-4A140MY | 4 | | 35 | 205.4 | 72.5 | 256.4 | 78.5 | 314.0 | 83.6 | 380.4 | 87.2 | 456.8 | 89.8 | |
| | | | 40 | 193.2 | 76.5 | 240.8 | 83.6 | 295.0 | 89.6 | 359.6 | 94.8 | 432.8 | 98.4 | |
| | | | 45 | 180.0 | 80.0 | 225.6 | 88.4 | 278.4 | 95.6 | 338.8 | 102.0 | 408.8 | 107.2 | |
| LUPB-2A80MY | 4GE-40 (40HP) | | 2 | 35 | 118.4 | 41.8 | 147.2 | 45.2 | 180.2 | 48.0 | 218.4 | 50.0 | 262.2 | 51.4 |
| | | | | 40 | 110.8 | 44.0 | 138.2 | 48.0 | 170.0 | 51.4 | 206.4 | 54.4 | 284.8 | 56.4 |
| | | | | 45 | 103.2 | 45.2 | 129.4 | 50.6 | 159.6 | 54.8 | 194.6 | 58.4 | 234.6 | 61.2 |
| LUPB-3A120MY | | 3 | 35 | 177.6 | 62.7 | 220.8 | 67.8 | 270.3 | 72.0 | 327.6 | 75.0 | 393.3 | 77.1 | |
| | | | 40 | 166.2 | 66.0 | 207.3 | 72.0 | 255.0 | 77.1 | 309.6 | 81.6 | 372.6 | 84.6 | |
| | | | 45 | 155.1 | 69.3 | 194.1 | 75.9 | 239.4 | 82.2 | 291.9 | 87.6 | 351.9 | 91.8 | |
| LUPB-4A160MY | | 4 | 35 | 236.8 | 83.6 | 294.4 | 90.4 | 360.4 | 96.0 | 436.8 | 100.0 | 524.4 | 102.8 | |
| | | | 40 | 221.6 | 88.0 | 276.4 | 96.0 | 340.0 | 102.8 | 412.8 | 108.8 | 496.8 | 112.8 | |
| | | | 45 | 206.8 | 92.4 | 258.8 | 101.2 | 319.2 | 109.6 | 389.2 | 116.8 | 469.2 | 122.4 | |
| LUPB-2A100MY | | 4FE-50 (50HP) | 2 | 35 | 142.8 | 51.0 | 177.2 | 55.0 | 216.8 | 58.2 | 262.4 | 60.8 | 314.8 | 62.2 |
| | | | | 40 | 133.8 | 53.8 | 166.6 | 58.4 | 204.6 | 62.6 | 248.4 | 65.8 | 298.4 | 68.2 |
| | | | | 45 | 125.0 | 56.4 | 156.2 | 61.8 | 192.4 | 66.6 | 234.2 | 70.8 | 282.0 | 74.0 |
| LUPB-3A150MY | 3 | | 35 | 214.2 | 76.5 | 265.8 | 82.5 | 325.2 | 87.3 | 393.6 | 91.2 | 472.2 | 93.3 | |
| | | | 40 | 200.7 | 80.7 | 249.9 | 87.6 | 306.9 | 93.9 | 372.6 | 98.7 | 447.6 | 102.3 | |
| | | | 45 | 187.5 | 84.6 | 234.3 | 92.7 | 288.5 | 99.9 | 351.3 | 106.2 | 423.0 | 111.0 | |
| LUPB-4A200MY | 4 | | 35 | 285.6 | 102.0 | 354.4 | 110.0 | 433.6 | 116.4 | 524.8 | 121.6 | 629.6 | 124.4 | |
| | | | 40 | 267.6 | 107.6 | 333.2 | 116.8 | 409.2 | 125.2 | 496.8 | 131.6 | 596.8 | 136.4 | |
| | | | 45 | 250.0 | 112.8 | 312.4 | 123.6 | 384.8 | 133.2 | 468.4 | 141.6 | 564.0 | 148.0 | |

DIMENSION

| Unit Model | Com.Model | Com.Cuantity | Reservoir (L) | Supply pipe (mm) | Suction pipe (mm) | Gas Outlet pipe (mm) | liquid inletpipe (mm) | Dimension (mm) (L*W*H) |
|-------------|----------------|--------------|---------------|------------------|-------------------|----------------------|-----------------------|------------------------|
| LUPB-2A18LY | 4TES-9 (9HP) | 2 | 40 | φ22 | φ54 | φ35 | φ28 | 2500x1000x1850 |
| LUPB-3A27LY | | 3 | 60 | φ28 | φ54 | φ42 | φ35 | 3150x1000x1850 |
| LUPB-4A36LY | | 4 | 60 | φ28 | φ76 | φ45 | φ35 | 3800x1000x1850 |
| LUPB-2A24LY | 4TES-12 (12HP) | 2 | 50 | φ22 | φ54 | φ35 | φ28 | 2500x1000x1850 |
| LUPB-3A36LY | | 3 | 80 | φ22 | φ66 | φ35 | φ28 | 3150x1000x1850 |
| LUPB-4A48LY | | 4 | 100 | φ28 | φ66 | φ35 | φ35 | 3800x1000x1850 |
| LUPB-2A28LY | 4TES-14 (14HP) | 2 | 60 | φ22 | φ54 | φ35 | φ28 | 2500x1000x1850 |
| LUPB-3A42LY | | 3 | 100 | φ28 | φ54 | φ42 | φ35 | 3150x1000x1850 |
| LUPB-4A56LY | | 4 | 150 | φ28 | φ76 | φ42 | φ35 | 3800x1000x1850 |
| LUPB-2A36LY | 4TES-18 (18HP) | 2 | 60 | φ22 | φ76 | φ35 | φ28 | 2500x1000x1850 |
| LUPB-3A54LY | | 3 | 100 | φ28 | φ76 | φ42 | φ35 | 3150x1000x1850 |
| LUPB-4A72LY | | 4 | 150 | φ28 | φ89 | φ54 | φ35 | 3800x1000x1850 |

DIMENSION

| Unit Model | Com.Model | Com.Cuantity | Reservoir (L) | Supply pipe (mm) | Suction pipe (mm) | Gas Outlet pipe (mm) | liquid inletpipe (mm) | Dimension (mm) (L*W*H) |
|--------------|------------------|--------------|---------------|------------------|-------------------|----------------------|-----------------------|------------------------|
| LUPB-2A46LY | 4GE-23 (23HP) | 2 | 60 | φ28 | φ76 | φ42 | φ35 | 2500x1000x1850 |
| LUPB-3A69LY | | 3 | 100 | φ35 | φ89 | φ54 | φ42 | 3150x1000x1850 |
| LUPB-4A92LY | | 4 | 150 | φ35 | φ89 | φ54 | φ42 | 3800x1000x1850 |
| LUPB-2A50LY | 6JE-25 (25HP) | 2 | 100 | φ28 | φ67 | φ42 | φ35 | 2500x1000x1850 |
| LUPB-3A75LY | | 3 | 150 | φ28 | φ67 | φ42 | φ35 | 3150x1000x1850 |
| LUPB-4A100LY | | 4 | 200 | φ35 | φ76 | φ54 | φ42 | 3800x1000x1850 |
| LUPB-2A56LY | 6HE-28 (28HP) | 2 | 100 | φ28 | φ76 | φ42 | φ35 | 2500x1000x1850 |
| LUPB-3A84LY | | 3 | 150 | φ35 | φ89 | φ54 | φ42 | 3150x1000x1850 |
| LUPB-4A112LY | | 4 | 200 | φ35 | φ108 | φ54 | φ42 | 3800x1000x2000 |
| LUPB-2A68LY | 6JE-34 (34HP) | 2 | 150 | φ35 | φ89 | φ54 | φ42 | 2500x1000x1850 |
| LUPB-3A102LY | | 3 | 200 | φ35 | φ108 | φ54 | φ42 | 3150x1000x1850 |
| LUPB-4A136LY | | 4 | 300 | φ42 | φ108 | φ67 | φ54 | 3800x1000x2000 |

DIMENSION

| Unit Model | Com.Model | Com.Cuantity | Reservoir (L) | Supply pipe (mm) | Suction pipe (mm) | Gas Outlet pipe (mm) | liquid inletpipe (mm) | Dimension (mm) (L*W*H) |
|--------------|----------------|--------------|---------------|------------------|-------------------|----------------------|-----------------------|------------------------|
| LUPB-2A20MY | 4VES-10 (10HP) | 2 | 40 | φ22 | φ42 | φ35 | φ28 | 2550x1200x1850 |
| LUPB-3A30MY | | 3 | 60 | φ22 | φ54 | φ42 | φ28 | 3150x1000x1850 |
| LUPB-4A40MY | | 4 | 60 | φ28 | φ54 | φ42 | φ35 | 3800x1000x1850 |
| LUPB-2A30MY | 4PES-15 (15HP) | 2 | 60 | φ22 | φ54 | φ35 | φ28 | 2550x1200x1850 |
| LUPB-3A45MY | | 3 | 60 | φ28 | φ76 | φ54 | φ35 | 3150x1000x1850 |
| LUPB-4A60MY | | 4 | 100 | φ35 | φ89 | φ54 | φ42 | 3800x1000x1850 |
| LUPB-2A40MY | 4NES-20 (20HP) | 2 | 60 | φ28 | φ54 | φ42 | φ35 | 3200x1950x1700 |
| LUPB-3A60MY | | 3 | 100 | φ35 | φ76 | φ54 | φ42 | 4100x1950x1750 |
| LUPB-4A80MY | | 4 | 100 | φ35 | φ89 | φ54 | φ42 | 4950x1950x1800 |
| LUPB-2A50MY | 4HES-25 (25HP) | 2 | 100 | φ28 | φ76 | φ54 | φ35 | 3200x1950x1700 |
| LUPB-3A75MY | | 3 | 100 | φ35 | φ89 | φ54 | φ42 | 4100x1950x1750 |
| LUPB-4A100MY | | 4 | 150 | φ42 | φ89 | φ67 | φ54 | 4950x1950x1800 |

DIMENSION

| Unit Model | Com.Model | Com.Cuantity | Reservoir (L) | Supply pipe (mm) | Suction pipe (mm) | Gas Outlet pipe (mm) | liquid inletpipe (mm) | Dimension (mm) (L*W*H) |
|--------------|------------------|--------------|---------------|------------------|-------------------|----------------------|-----------------------|------------------------|
| LUPB-2A60MY | 4GE-30 (30HP) | 2 | 100 | φ35 | φ76 | φ54 | φ42 | 2550x1200x1850 |
| LUPB-3A90MY | | 3 | 100 | φ35 | φ89 | φ54 | φ42 | 3150x1000x1850 |
| LUPB-4A120MY | | 4 | 150 | φ42 | φ108 | φ55 | φ54 | 3800x1000x1850 |
| LUPB-2A70MY | 4HE-35 (35HP) | 2 | 100 | φ35 | φ89 | φ54 | φ42 | 2500x1200x1850 |
| LUPB-3A105MY | | 3 | 150 | φ42 | φ108 | φ66 | φ54 | 3150x1000x1850 |
| LUPB-4A140MY | | 4 | 200 | φ54 | φ108 | φ79 | φ66 | 3800x1000x2000 |
| LUPB-2A80MY | 4GE-40 (40HP) | 2 | 100 | φ35 | φ89 | φ54 | φ42 | 2550x1200x1850 |
| LUPB-3A120MY | | 3 | 150 | φ42 | φ108 | φ66 | φ54 | 3150x1000x2000 |
| LUPB-4A160MY | | 4 | 200 | φ54 | φ108 | φ79 | φ66 | 3800x1000x2000 |
| LUPB-2A100MY | 4FE-50 (50HP) | 2 | 150 | φ42 | φ89 | φ76 | φ54 | 2550x1200x1850 |
| LUPB-3A150MY | | 3 | 100 | φ54 | φ108 | φ76 | φ66 | 3150x1000x2000 |
| LUPB-4A200MY | | 4 | 250 | φ54 | φ133 | φ108 | φ66 | 3800x1000x2000 |

TECHNICAL DATA

LOW TEMP. APPLICATION WATER COOLED

| Unit Model | Com. Model | Com. Cuartity | Evaporation Temp. (°C) | | | | | | | | | |
|--------------|-------------------|---------------|----------------------------------|------|-------|------|-------|------|-------|------|------|------|
| | | | -20 | | -25 | | -30 | | -35 | | -40 | |
| | | | Cooling Capacity/Power Input(kw) | | | | | | | | | |
| LUPB-2W18LY | 4TES-9 (9HP) | 2 | 26.8 | 12.9 | 21.4 | 11.3 | 15.6 | 10.1 | 15.6 | 10.1 | 7.6 | 7.1 |
| LUPB-3W27LY | | 3 | 40.2 | 19.3 | 32.1 | 32.1 | 23.3 | 15.2 | 23.3 | 15.2 | 11.5 | 10.5 |
| LUPB-4W36LY | | 4 | 53.6 | 25.7 | 42.8 | 22.5 | 31.1 | 20.2 | 31.1 | 20.2 | 15.3 | 14.1 |
| LUPB-2W24LY | 4PES-12 (12HP) | 2 | 30.2 | 14.2 | 22.7 | 12.4 | 18.1 | 11.4 | 18.1 | 11.4 | 8.8 | 8.0 |
| LUPB-3W36LY | | 3 | 45.3 | 21.3 | 34.1 | 18.5 | 27.1 | 17.0 | 27.1 | 17.0 | 13.3 | 12.1 |
| LUPB-4W48LY | | 4 | 60.4 | 28.4 | 45.4 | 24.7 | 36.1 | 22.7 | 36.1 | 22.7 | 17.7 | 16.1 |
| LUPB-2W28LY | 4NES-14 (14HP) | 2 | 36.0 | 17.2 | 28.7 | 15.0 | 20.9 | 13.3 | 20.9 | 13.3 | 10.3 | 9.5 |
| LUPB-3W42LY | | 3 | 54.0 | 25.8 | 43.1 | 22.5 | 19.9 | 31.4 | 19.9 | 31.4 | 15.4 | 14.2 |
| LUPB-4W56LY | | 4 | 72.0 | 34.4 | 57.4 | 30.0 | 41.9 | 26.6 | 41.9 | 26.6 | 20.6 | 19.0 |
| LUPB-2W36LY | 4HES-18 (18HP) | 2 | 48.0 | 22.8 | 38.9 | 20.2 | 26.3 | 17.4 | 26.3 | 17.4 | 12.3 | 11.8 |
| LUPB-3W54LY | | 3 | 72.0 | 34.2 | 58.3 | 30.3 | 39.4 | 26.0 | 39.4 | 26.0 | 18.4 | 17.7 |
| LUPB-4W72LY | | 4 | 96.0 | 45.6 | 77.7 | 40.4 | 52.6 | 34.7 | 52.6 | 34.7 | 24.6 | 23.6 |
| LUPB-2W46LY | 4GE-23 (23HP) | 2 | 57.4 | 27.5 | 47.0 | 24.5 | 30.5 | 25.7 | 30.5 | 20.7 | 14.4 | 14.3 |
| LUPB-3W69LY | | 3 | 86.1 | 41.2 | 70.5 | 36.8 | 45.8 | 31.1 | 45.8 | 31.1 | 21.5 | 21.5 |
| LUPB-4W92LY | | 4 | 114.8 | 54.9 | 64.0 | 49.1 | 61.0 | P;]] | 62.0 | 41.4 | 28.7 | 28.6 |
| LUPB-2W50LY | 6JE-25 (25HP) | 2 | 61.8 | 29.1 | 50.0 | 25.8 | 35.3 | 22.5 | 35.3 | 22.5 | 15.9 | 15.2 |
| LUPB-3W75LY | | 3 | 92.7 | 43.7 | 75.0 | 38.7 | 52.9 | 33.7 | 52.9 | 33.7 | 23.8 | 22.9 |
| LUPB-4W100LY | | 4 | 123.6 | 58.2 | 100.0 | 52.6 | 70.6 | 44.9 | 70.6 | 44.9 | 31.8 | 30.5 |
| LUPB-2W56LY | 6HE-28 (28HP) | 2 | 73.6 | 34.9 | 59.8 | 31.0 | 39.4 | 26.0 | 39.4 | 26.0 | 18.4 | 17.7 |
| LUPB-3W84LY | | 3 | 110.4 | 52.3 | 89.7 | 46.5 | 59.1 | 39.0 | 59.1 | 39.0 | 27.7 | 26.6 |
| LUPB-4W112LY | | 4 | 147.2 | 69.7 | 119.6 | 62.0 | 78.8 | 52.1 | 78.8 | 52.1 | 36.9 | 35.4 |
| LUPB-2W68LY | 6GE-34 (34HP) | 2 | 85.0 | 40.6 | 69.2 | 36.1 | 48.5 | 31.0 | 48.5 | 31.0 | 21.5 | 21.4 |
| LUPB-3W102LY | | 3 | 127.5 | 60.9 | 103.8 | 54.2 | 68.7 | 46.5 | 68.7 | 46.5 | 32.3 | 32.0 |
| LUPB-4W136LY | | 4 | 170.0 | 81.2 | 138.4 | 72.2 | 91.6 | 62.1 | 91.6 | 62.1 | 43.1 | 42.8 |
| LUPB-2W88LY | 6FE-44 (44HP) | 2 | 103.0 | 49.2 | 84.0 | 44.2 | 55.4 | 37.2 | 55.4 | 37.2 | 26.7 | 26.1 |
| LUPB-3W132LY | | 3 | 154.5 | 73.8 | 126.0 | 66.3 | 83.1 | 55.9 | 83.1 | 55.9 | 40.0 | 39.2 |
| LUPB-4W176LY | | 4 | 206.0 | 89.4 | 168.0 | 88.4 | 110.8 | 74.5 | 110.8 | 74.5 | 53.3 | 52.2 |

Remarks: In the design condition, the cooling water inlet temperature is 30°C, the outlet water temperature is 35°C, the suction superheat temperature is 10°C, the condensing temperature is 40°C, and when the evaporation temperature is lower than -30°C, a head expansion liquid spray device is added.

DIMENSION

| Unit Model | Com.Model | Com.Cuantity | Reservoir (L) | Supply pipe (mm) | Suction pipe (mm) | Gas Outlet pipe (mm) | liquid inletpipe (mm) | Dimension (mm) (L*W*H) |
|--------------|----------------|--------------|---------------|------------------|-------------------|----------------------|-----------------------|------------------------|
| LUPB-2W18LY | 4TES-9 (9HP) | 2 | 40 | φ22 | φ54 | 2" | 9.5 | 2300x1250x1850 |
| LUPB-3W27LY | | 3 | 60 | φ22 | φ54 | 2" | 14 | 2950x1250x1850 |
| LUPB-4W36LY | | 4 | 60 | φ22 | φ76 | 2-1/2" | 18.5 | 3600x1250x1850 |
| LUPB-2W24LY | 4PES-12 (12HP) | 2 | 50 | φ22 | φ54 | 2" | 11 | 2300x1250x1850 |
| LUPB-3W36LY | | 3 | 80 | φ22 | φ54 | 2" | 16.5 | 2950x1250x1850 |
| LUPB-4W48LY | | 4 | 100 | φ28 | φ76 | 2-1/2" | 22 | 3600x1250x1850 |
| LUPB-2W28LY | 4NES-14 (14HP) | 2 | 60 | φ22 | φ54 | 2" | 14 | 2300x1250x1850 |
| LUPB-3W42LY | | 3 | 100 | φ28 | φ76 | 2-1/2" | 21 | 2950x1250x1850 |
| LUPB-4W56LY | | 4 | 150 | φ28 | φ76 | 2-1/2" | 28 | 3600x1250x1850 |
| LUPB-2W36LY | 4HES-18 (18HP) | 2 | 60 | φ28 | φ76 | 2-1/2" | 16 | 2300x1250x1850 |
| LUPB-3W54LY | | 3 | 100 | φ28 | φ76 | 2-1/2" | 24 | 2950x1250x1850 |
| LUPB-4W72LY | | 4 | 150 | φ28 | φ76 | 3" | 32 | 3600x1250x1850 |
| LUPB-2W46LY | 4GE-23 (23HP) | 2 | 100 | φ28 | φ76 | 2-1/2" | 21 | 2300x1250x1850 |
| LUPB-3W69LY | | 3 | 150 | φ28 | φ76x2 | 3" | 31 | 2950x1250x1850 |
| LUPB-4W92LY | | 4 | 200 | φ35 | φ108 | 4" | 41.5 | 3600x1250x1850 |
| LUPB-2W50LY | 6JE-25 (25HP) | 2 | 150 | φ22 | φ67 | 2-1/2" | 22 | 2300x1250x1850 |
| LUPB-3W75LY | | 3 | 200 | φ28 | φ76 | 3" | 33 | 2950x1250x1850 |
| LUPB-4W100LY | | 4 | 250 | φ28 | φ76 | 4" | 44 | 3600x1250x1850 |
| LUPB-2W56LY | 6HE-28 (28HP) | 2 | 150 | φ28 | φ76 | 2-1/2" | 24 | 2300x1250x1850 |
| LUPB-3W84LY | | 3 | 200 | φ35 | φ108 | 3" | 36 | 2950x1250x1850 |
| LUPB-4W112LY | | 4 | 250 | φ35 | φ108 | 4" | 48 | 3600x1250x1850 |
| LUPB-2W68LY | 6GE-34 (34HP) | 2 | 150 | φ28 | φ76 | 3" | 29 | 2300x1250x1850 |
| LUPB-3W102LY | | 3 | 200 | φ35 | φ108 | 3" | 43.5 | 2950x1250x1850 |
| LUPB-4W136LY | | 4 | 300 | φ35 | φ108 | 4" | 58 | 3600x1250x1850 |
| LUPB-2W88LY | 6FE-44 (44HP) | 2 | 200 | φ28 | φ76 | 3" | 29 | 2300x1250x1850 |
| LUPB-3W132LY | | 3 | 250 | φ35 | φ108 | 3" | 43.5 | 2950x1250x1850 |
| LUPB-4W176LY | | 4 | 400 | φ35 | φ108 | 4" | 58 | 3600x1250x1850 |



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