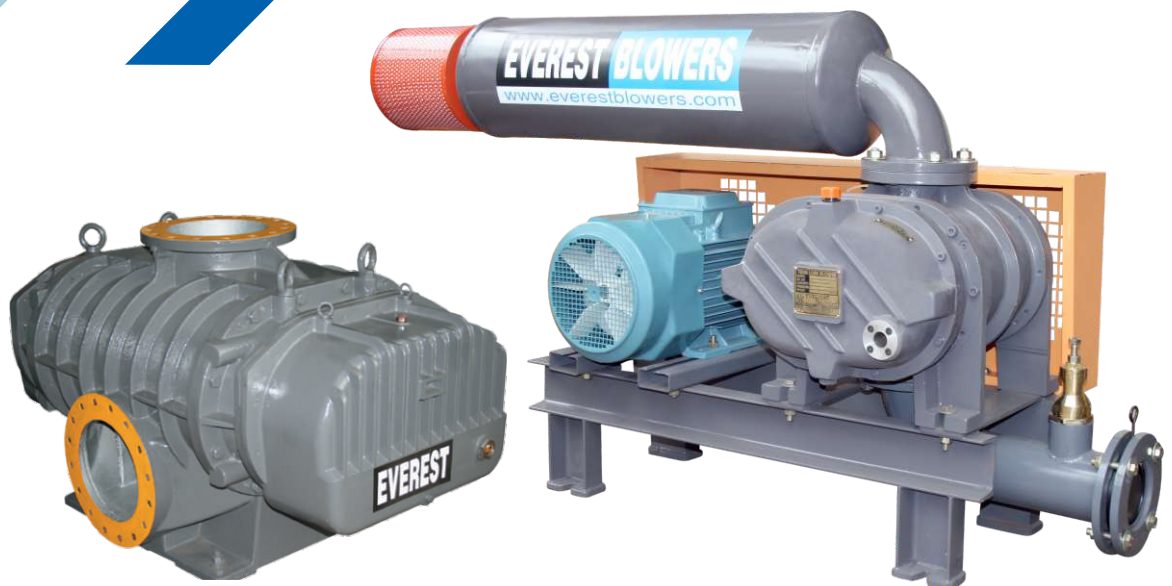


# POSITIVE DISPLACEMENT BLOWERS & VACUUM PUMPS

## TWIN LOBE & TRI-LOBE SERIES

### CATALOGUE INCLUDES

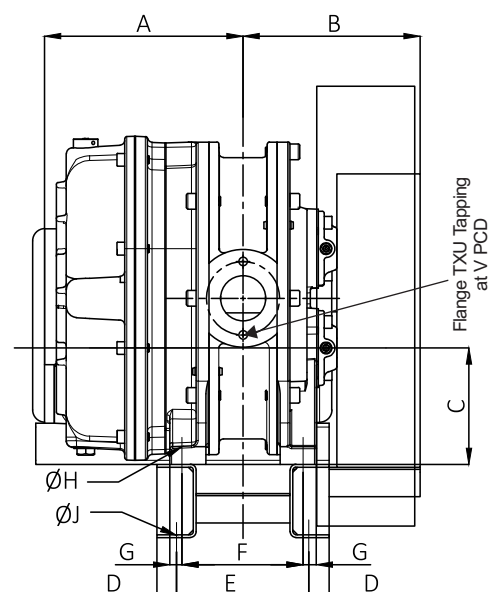
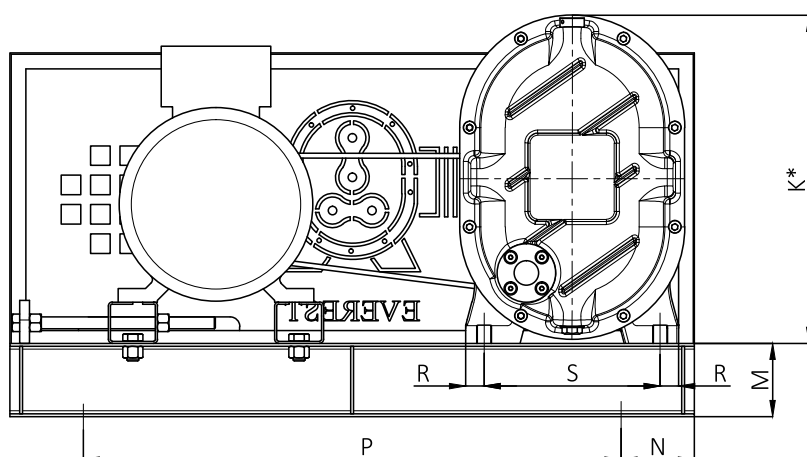
Twin-lobe Rotary Air Blowers | Compressors  
Tri-lobe Rotary Air Blowers | Compressors  
Tri-lobe Vertical Rotary Air Blowers | Compressors  
Twin Lobe Rotary Gas Blowers | Compressors  
Integral Gear Box Design - High Seppd Turbo Blowers  
Multistage Centrifugal Blowers  
Acoustic Hoods | Enclosures  
Vacuum Pumps  
Spares



## PERFORMANCE TABLE TWIN-LOBE ROTARY BLOWERS

| AIR COOLED |       |                    |     |                    |     |                    |     |                    |     |                    |     |                    |     |                    |     |
|------------|-------|--------------------|-----|--------------------|-----|--------------------|-----|--------------------|-----|--------------------|-----|--------------------|-----|--------------------|-----|
| MODEL      | SPEED | 1000 mmWC          |     | 2000 mmWC          |     | 3000 mmWC          |     | 4000 mmWC          |     | 5000 mmWC          |     | 6000 mmWC          |     | 7000 mmWC          |     |
|            | RPM   | m <sup>3</sup> /hr | BKW | m <sup>3</sup> /hr | BKW | m <sup>3</sup> /hr | BKW | m <sup>3</sup> /hr | BKW | m <sup>3</sup> /hr | BKW | m <sup>3</sup> /hr | BKW | m <sup>3</sup> /hr | BKW |
| M44        | 700   | 80                 | 0.5 | 69                 | 0.8 | 61                 | 1.0 | 55                 | 1.3 | 49                 | 1.6 | 44                 | 1.9 | 39                 | 2.2 |
|            | 1000  | 125                | 0.7 | 114                | 1.1 | 106                | 1.5 | 100                | 1.9 | 94                 | 2.3 | 88                 | 2.7 | 84                 | 3.1 |
|            | 1500  | 199                | 1.0 | 189                | 1.6 | 181                | 2.2 | 174                | 2.8 | 169                | 3.5 | 163                | 4.1 | 158                | 4.7 |
|            | 1900  | 259                | 1.3 | 249                | 2.1 | 241                | 2.8 | 234                | 3.6 | 228                | 4.4 | 223                | 5.1 | 218                | 5.9 |
|            | 2200  | 304                | 1.5 | 294                | 2.4 | 286                | 3.3 | 279                | 4.2 | 273                | 5.1 | 268                | 6.0 | 263                | 6.9 |
|            | 2500  | 349                | 1.7 | 339                | 2.7 | 331                | 3.7 | 324                | 4.7 | 318                | 5.8 | 313                | 6.8 |                    |     |
|            | 2800  | 394                | 1.9 | 384                | 3.0 | 376                | 4.2 | 369                | 5.3 | 348                | 6.4 |                    |     |                    |     |

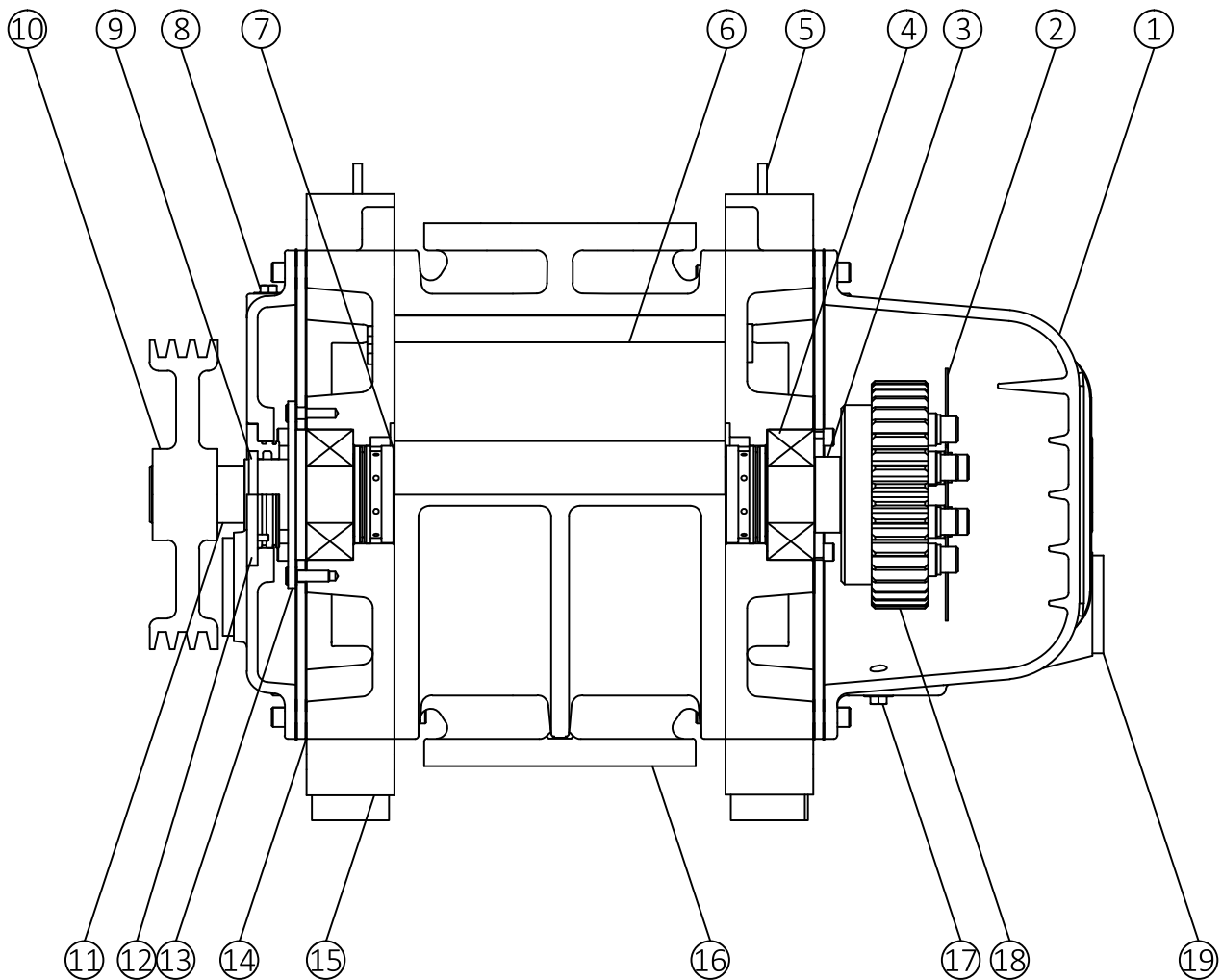
## TWIN-LOBE DIMENSIONS AND WEIGHT



| Model | A   | B   | C   | D  | E   | F   | G  | H  | J  | K*  | M  | N  | P   | R  | S   | T | U   | V   | WT. (KG) | Line size (NB) | Noise Level dB(A) | Orientation |
|-------|-----|-----|-----|----|-----|-----|----|----|----|-----|----|----|-----|----|-----|---|-----|-----|----------|----------------|-------------------|-------------|
| M44   | 230 | 217 | 150 | 20 | 167 | 166 | 21 | 14 | 12 | 364 | 75 | 75 | 650 | 30 | 180 | 2 | M10 | 112 | 280      | 65             | 76                | HF          |

\* Max. height of blower (From hook top to foot bottom or Blower Discharge top to foot bottom) Units: mm, Weight (WT.): Blower weight in "Kg"  
 The above Noise Level are given considering Blower without Acoustic Hood at 1500 RPM and 4000 - 5000 mmWC

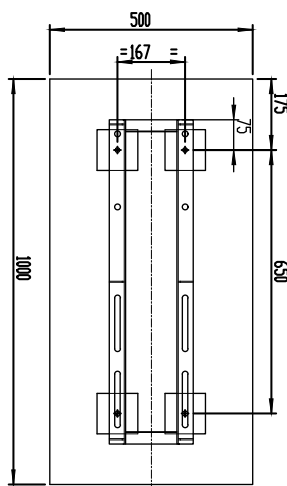
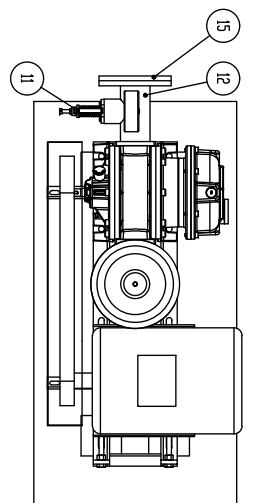
## TWIN-LOBE STRUCTURE OF MATERIAL



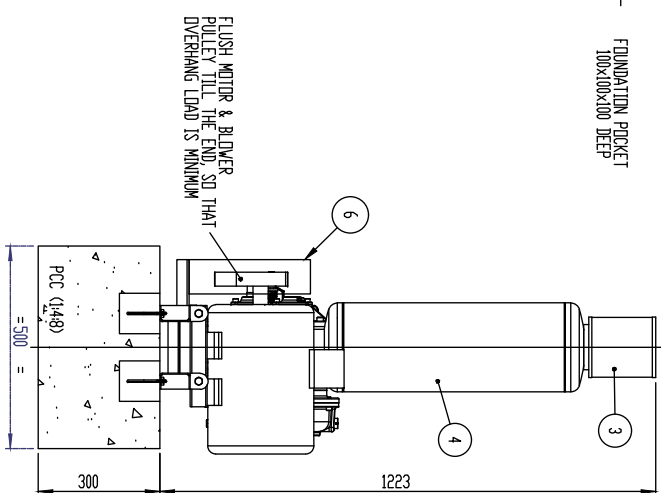
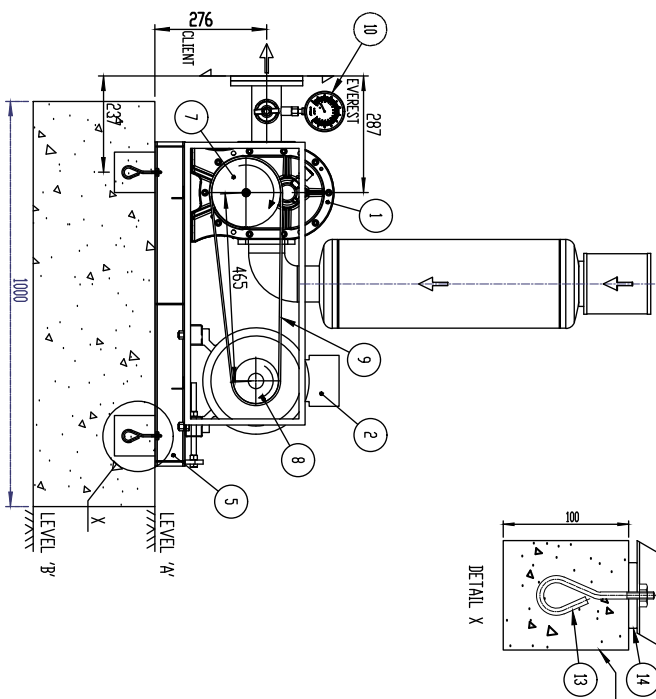
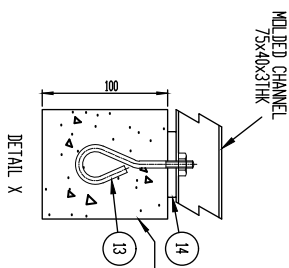
## TWIN-LOBE BLOWER STRUCTURE &amp; MATERIAL DETAIL

| NO. | NAME              | MATERIAL            | NO. | NAME             | MATERIAL      |
|-----|-------------------|---------------------|-----|------------------|---------------|
| 1   | GSP Cover         | C.I. FG200          | 12  | Oil Seal Housing | C.I. FG260    |
| 2   | Oil Splasher      | CR Sheet / Aluminum | 13  | Bearing Clamp    | M.S.          |
| 3   | Spacer            | M.S./EN8            | 14  | Gasket           | Non Asbestos  |
| 4   | Bearing           | Alloy Steel         | 15  | Side Plate       | C.I. FG260    |
| 5   | Lifting Hook      | M.S.                | 16  | Body             | C.I. FG260    |
| 6   | Rotor             | S.S./C.I./SG Iron   | 17  | Oil Drain Plug   | M.S. Magnetic |
| 7   | Piston/Axial Bush | C.I./EN8            | 18  | Timing Gear      | Alloy Steel   |
| 8   | Oil Fill Plug     | M.S./Brass          | 19  | Oil Indicator    | Aluminum      |
| 9   | Oil Seal          | Nitrile/Viton       | 20  | -                | -             |
| 10  | Pulley            | C.I.                | 21  | -                | -             |
| 11  | Shaft             | EN8/EN19            | 22  | -                | -             |

PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE  
PROPERTY OF EVEREST BLOWERS. ANY REPRODUCTION IN  
PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF  
EVEREST BLOWERS IS PROHIBITED.



FOUNDATION PLAN LAYOUT



NOTES & RECOMMENDATIONS:-

1. CLIENT SCOPE- FOUNDATION, DISCHARGE LINE & ITS TREATMENT FOR CORROSION PROTECTION & SOUND PROOFING.
2. BLOWER ROTATION CLOCKWISE AS VIEWED FROM PULLEY SHAFT END.
3. GROUND LEVEL WILL BE AT LEVEL 'A' FOR DIGOUT BASE AND AT LEVEL 'B' FOR RAISED BASE.

STATIC LOAD:-

1. STATIC WEIGHT OF BLOWER= 62 KG
2. STATIC WEIGHT OF MOTOR= 74 KG
3. STATIC WEIGHT OF ACCESSORIES= 44 KG (APPROX)
4. STATIC WEIGHT OF BLOWER ASSEMBLY = 180 KG (APPROX)
5. DYNAMIC LOAD OF ASSEMBLY = 1.5x STATIC LOAD= 270 KG (APPROX)

| EQUIPMENT NAME |    |
|----------------|----|
| MODEL NO       | 44 |
| QUANTITY       |    |
| CLIENT         |    |
| P.O. REF.      |    |
| BLOWER DATA    |    |
| CAPACITY       |    |
| PRESSURE       |    |
| SPEED          |    |
| B.H.P          |    |
| MOTOR          |    |

| ITEM NO | DESCRIPTION         | QTY | UNIT | REMARKS                               |
|---------|---------------------|-----|------|---------------------------------------|
| 1       | COMPANION FLANGE    | 1   | EA   | 65 NB DRILLING AS PER ANSI B16.5      |
| 2       | ANTI VIBRATION PADS | 4   | EA   | RUBBER                                |
| 3       | FOUNDATION BOLT     | 4   | EA   | M10x100 N IS 5624                     |
| 4       | ICP (65NB)          | 1   | EA   | PI0008104900                          |
| 5       | PR. RELIEF VALVE    | 1   | EA   | 1.5" SPRING LOADED BURJEN TYPE/ 100MM |
| 6       | PRESSURE GAUGE      | 1   | EA   | DIAL 0-1KG/ CM <sup>2</sup> 1/4"      |
| 7       | V-BELTS             | 1   | EA   | E-TECH-032                            |
| 8       | MOTOR PULLEY        | 1   | EA   | E-TECH-032                            |
| 9       | BLOWER PULLEY       | 1   | EA   | E-TECH-032                            |
| 10      | BELT GUARD          | 1   | EA   | PI0004100700                          |
| 11      | BASE FRAME          | 1   | EA   | PI0002101400                          |
| 12      | SILENCER (80NB)     | 1   | EA   | PI0003106100                          |
| 13      | AIR FILTER          | 1   | EA   | AF-200                                |
| 14      | ELECTRIC MOTOR      | 1   | EA   | STD                                   |
| 15      | AIR BLOWER          | 1   | EA   | 44                                    |

| ITEM NO | DESCRIPTION         | QTY | UNIT | REMARKS                               |
|---------|---------------------|-----|------|---------------------------------------|
| 1       | COMPANION FLANGE    | 1   | EA   | 65 NB DRILLING AS PER ANSI B16.5      |
| 2       | ANTI VIBRATION PADS | 4   | EA   | RUBBER                                |
| 3       | FOUNDATION BOLT     | 4   | EA   | M10x100 N IS 5624                     |
| 4       | ICP (65NB)          | 1   | EA   | PI0008104900                          |
| 5       | PR. RELIEF VALVE    | 1   | EA   | 1.5" SPRING LOADED BURJEN TYPE/ 100MM |
| 6       | PRESSURE GAUGE      | 1   | EA   | DIAL 0-1KG/ CM <sup>2</sup> 1/4"      |
| 7       | V-BELTS             | 1   | EA   | E-TECH-032                            |
| 8       | MOTOR PULLEY        | 1   | EA   | E-TECH-032                            |
| 9       | BLOWER PULLEY       | 1   | EA   | E-TECH-032                            |
| 10      | BELT GUARD          | 1   | EA   | PI0004100700                          |
| 11      | BASE FRAME          | 1   | EA   | PI0002101400                          |
| 12      | SILENCER (80NB)     | 1   | EA   | PI0003106100                          |
| 13      | AIR FILTER          | 1   | EA   | AF-200                                |
| 14      | ELECTRIC MOTOR      | 1   | EA   | STD                                   |
| 15      | AIR BLOWER          | 1   | EA   | 44                                    |

| ITEM NO | DESCRIPTION         | QTY | UNIT | REMARKS                               |
|---------|---------------------|-----|------|---------------------------------------|
| 1       | COMPANION FLANGE    | 1   | EA   | 65 NB DRILLING AS PER ANSI B16.5      |
| 2       | ANTI VIBRATION PADS | 4   | EA   | RUBBER                                |
| 3       | FOUNDATION BOLT     | 4   | EA   | M10x100 N IS 5624                     |
| 4       | ICP (65NB)          | 1   | EA   | PI0008104900                          |
| 5       | PR. RELIEF VALVE    | 1   | EA   | 1.5" SPRING LOADED BURJEN TYPE/ 100MM |
| 6       | PRESSURE GAUGE      | 1   | EA   | DIAL 0-1KG/ CM <sup>2</sup> 1/4"      |
| 7       | V-BELTS             | 1   | EA   | E-TECH-032                            |
| 8       | MOTOR PULLEY        | 1   | EA   | E-TECH-032                            |
| 9       | BLOWER PULLEY       | 1   | EA   | E-TECH-032                            |
| 10      | BELT GUARD          | 1   | EA   | PI0004100700                          |
| 11      | BASE FRAME          | 1   | EA   | PI0002101400                          |
| 12      | SILENCER (80NB)     | 1   | EA   | PI0003106100                          |
| 13      | AIR FILTER          | 1   | EA   | AF-200                                |
| 14      | ELECTRIC MOTOR      | 1   | EA   | STD                                   |
| 15      | AIR BLOWER          | 1   | EA   | 44                                    |

| ITEM NO | DESCRIPTION         | QTY | UNIT | REMARKS                               |
|---------|---------------------|-----|------|---------------------------------------|
| 1       | COMPANION FLANGE    | 1   | EA   | 65 NB DRILLING AS PER ANSI B16.5      |
| 2       | ANTI VIBRATION PADS | 4   | EA   | RUBBER                                |
| 3       | FOUNDATION BOLT     | 4   | EA   | M10x100 N IS 5624                     |
| 4       | ICP (65NB)          | 1   | EA   | PI0008104900                          |
| 5       | PR. RELIEF VALVE    | 1   | EA   | 1.5" SPRING LOADED BURJEN TYPE/ 100MM |
| 6       | PRESSURE GAUGE      | 1   | EA   | DIAL 0-1KG/ CM <sup>2</sup> 1/4"      |
| 7       | V-BELTS             | 1   | EA   | E-TECH-032                            |
| 8       | MOTOR PULLEY        | 1   | EA   | E-TECH-032                            |
| 9       | BLOWER PULLEY       | 1   | EA   | E-TECH-032                            |
| 10      | BELT GUARD          | 1   | EA   | PI0004100700                          |
| 11      | BASE FRAME          | 1   | EA   | PI0002101400                          |
| 12      | SILENCER (80NB)     | 1   | EA   | PI0003106100                          |
| 13      | AIR FILTER          | 1   | EA   | AF-200                                |
| 14      | ELECTRIC MOTOR      | 1   | EA   | STD                                   |
| 15      | AIR BLOWER          | 1   | EA   | 44                                    |