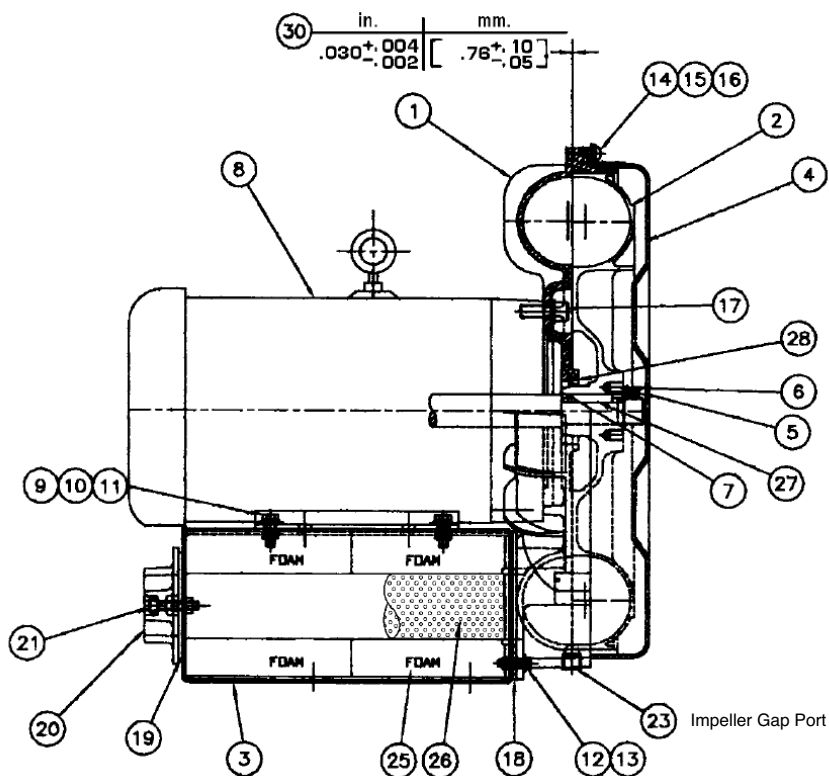


Spencer® Vortex® Regenerative Blowers

VB019S, VB019, VB019SXP, VB019XP

Assembly Diagram



Parts List

| DESCRIPTION: VORTEX BLOWER ASSEMBLY – VB019S, VB019, VB019SXP, VB019XP | | | |
|--|----------|--|------|
| ITEM | PART NO. | DESCRIPTION | QTY. |
| 1 | VBC91901 | Case | 1 |
| 2 | VBI91901 | Impeller | 1 |
| 3 | VBB91901 | Base | 1 |
| 4 | VBE91901 | Cover, Impeller | 1 |
| 5 | NUT90210 | Locknut, Shaft | 1 |
| 6 | WSH90171 | Lockwasher, Shaft | 1 |
| 7 | WSH90160 | Shim, Shaft to Impeller (as required) | 1 |
| 8 | MOT90254 | Motor, 145TC, 2-1/2 HP, 1PH, 50/60Hz | 1 |
| 8A | MOT90249 | Motor, 145TC, 2-1/2 HP, 3PH, 50/60Hz | 1 |
| 8B | MOT90347 | Motor, 145TC, 2-1/2 HP, 3PH, 575 Volt, 50/60Hz | 1 |
| 8C | MOT90224 | Motor, 145TC, 2-1/2 HP, 3PH, XP, 50/60Hz | 1 |
| 8D | MOT90359 | Motor, 145TC, 2-1/2 HP, 1PH, XP, 50/60Hz | 1 |
| 8E | MOT90476 | Motor, 145TC, 2-1/2 HP, 3PH, 60Hz | 1 |
| 8F | MOT90475 | Motor, 145TC, 2-1/2 HP, 1PH, 60Hz | 1 |
| 9 | SCR90887 | M6 x 1.0 Hex Head Bolt x .63 [16] Long | 4 |
| 9ALT | SCR90876 | M6. x 1.0 Hex Head Bolt x .98 [25] Long (Cast Motor) | 4 |
| 10 | WSH90142 | Lockwasher, M6 | 4 |
| 11 | WSH90166 | Flat Washer, M6 | 4 |
| 12 | SCR90943 | M5 x 0.8 Hex Head Bolt x .79 [20] Long | 2 |
| 13 | WSH90181 | Flat Washer, M5 | 2 |
| 14 | SCR90877 | M5 x 0.8 Pan Head Phillips Screw x .39 [10] Long | 4 |
| 15 | WSH90138 | Lockwasher, M5 | 4 |
| 16 | WSH90139 | Flat Washer, M5 | 4 |
| 17 | SCR90867 | 3/8-16 x .75" Long Socket Cap Screw | 4 |
| 18 | GSK90162 | Gasket, Case | 1 |
| 19 | GSK90163 | Gasket, Flange | 2 |
| 20 | FLC90008 | Flange, 1 1/2 FNPT | 2 |
| 21 | SCR90931 | M6 x 1.0 S.H.C.S. x .98 [25] Long | 4 |
| 23 | PLG90037 | Plug, 1/4 NPT x .43 [11] Long | 1 |
| 25 | INS90019 | Absorber | 4 |
| 26 | SCN90063 | Screen | 2 |
| 27 | KEY90077 | Key | 1 |
| 28 | SEL90107 | Lip Seal | 1 |
| 30 | N/A | Impeller to case gap specification | N/A |

(See Bulletin 417, pages 36 and 37 for specifics on models with explosion-proof motors.)

VB019S, VB019

Performance Curves

