

Air Mac



E. COMPRESSORS AND PISTON VACUUM PUMPS

- Compressor AIRMAC is equipped with high-efficient electromagnetic vibration motor,
- because there are no resistances in bearings and there is no friction, the compressor is significantly cheaper to operate (lower power consumption) compared to compressors equipped with classic motors,
- magnetic anchor/shuttle is directly connected by membranes, which drives and at the same time it is ideally centered in magnetic field of coils,
- this air blower / low pressure membrane compressor / membrane blower excels with its long life and trouble-free operation (our experiences confirm confirmed three to six years without exchange membranes).

All series of AIRMAC compressors (DB 40 to DBMX 500) contains thermal protection, which in case of overheating above 106 °C disconnects coils, so compressor is switched off. After cooling down to 90 °C, the compressor is again put into the operation.

DBMX series have additional safety switch – they are fitted with safety microswitch, which switches off coils, in case, that anchor has disproportionately high stroke – which

could occur due membrane rupture due to material fatigue (membrane hasn't been replaced on time) . After servicing – replacing membranes – serviceman will manually reset microswitch and restores the operational status of the compressor. AirMac Compressors are made to their operation be the least noisy and to avoid any vibrations. This goal is achieved by using a two-stage double cover rubber cushioning / damping, which effectively insulate own motor part.

APPLICATION:

- Galvanic baths
- Oxidation / aeration in fish farming.
- Suction pumps for laboratory equipment.
- Home waste-water systems

| Model | DB 40 | DB 60 | DB 80 | DB 120 | DB 150 | DBMX 80 | DBMX 100 | DBMX 150 | DBMX 200 | DBMX 250 | DBMX 300 | DBMX 400 | DBMX 500 | | | |
|-----------------------------|---------------------------------------|--------|--------|-----------------|----------|---------|-----------------|----------|----------|-----------------|----------|----------|-----------------|--|-----------------|--|
| Working pressure (mbar) | Air flow (l/min) / Consumption (Watt) | | | | | | | | | | | | | | | |
| 0 | 72/45 | 111/69 | 118/92 | 182/165 | 189/184 | 140/109 | 151 / 126 | 250/171 | 279/247 | 462/295 | 489/387 | 706/498 | 952/590 | | | |
| 50 | 64/45 | 99/68 | 107/93 | 176/136 | 186/181 | 125/107 | 144/125 | 241/168 | 265/244 | 409/284 | 443/379 | 699/470 | 797/569 | | | |
| 100 | 55/44 | 87/65 | 97/92 | 163/126 | 178/175 | 112/100 | 130/119 | 214/158 | 248/234 | 356/262 | 397/357 | 606/437 | 691/540 | | | |
| 150 | 45/40 | 73/61 | 86/88 | 141/118 | 163/168 | 98/93 | 114/112 | 183/145 | 225/222 | 303/233 | 351/329 | 511/396 | 596/503 | | | |
| 200 | 35/36 | 61/56 | 75/83 | 120/108 | 144/157 | 83/88 | 98/102 | 150/130 | 200/206 | 250/202 | 300/298 | 418/347 | 511/460 | | | |
| 250 | 25/31 | 47/49 | 64/77 | 97/96 | 126 /142 | 67/83 | 83/92 | 119/112 | 174/189 | 185/167 | 244/262 | 312/291 | 407/411 | | | |
| Optimum operating pressure | < 250 mbar | | | | | | | | | | | | | | | |
| Voltage | 230 V/50 Hz | | | | | | | | | | | | | | | |
| Max. curren (A) | 0,44 | 0,62 | 0,98 | 1,27 | 1,98 | 0,63 | 0,82 | 1,2 | 1,75 | 1,80 | 2,60 | 2,60 | 3,70 | | | |
| Noise - 1,5 m (dB) | 37 | 39 | 40 | 53 | 53 | 50 | 50 | 48 | 48 | 55 | 56 | 50 | 52 | | | |
| Weight (kg) | 6,5 | 7,3 | 7,6 | 12,4 | 12,8 | 7,5 | 7,5 | 11,9 | 11,9 | 17,8 | 18,0 | 21,50 | 22,00 | | | |
| Dimensions L x W x H (mm) | 205 x 172 x 210 | | | 336 x 212 x 187 | | | 262 x 216 x 223 | | | 294 x 226 x 247 | | | 226 x 178 x 206 | | 380 x 254 x 247 | |
| Connection pipe (dia in mm) | 18 | | | 18 | | | 18 | | | 18 | | | 18 | | 27 | |