

# ORION AC & DC FANS



## Part Number Construction [ General Information ]

| Building an AC Part Number: OA109AP-22-1TB-18. (Note: Many AC fans are available with sensor functions by special order.) |                                                                                                                       |                                                                                                                                                                                               |                                                                                                               |                                                                                                          |                                                                                                                              |                                                                                                                                                  |                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OA                                                                                                                        | 109                                                                                                                   | AP                                                                                                                                                                                            | 22                                                                                                            | 1                                                                                                        | T                                                                                                                            | B                                                                                                                                                | 18                                                                                                                                                                                                                                                            |
| OA = Orion AC ... Orion AC fan part numbers will generally begin with "OA" (Orion AC) or "OAB" (Orion AC Blower)          | "109" = Model Number ... Model numbers designate frame sizes. In this case "109" will always refer to a 120X38mm fan. | AP = Frame Construction ... Frames are available as "AP" (Aluminum Painted), "AN" (Aluminum Natural Sanded), SAP - Stackable aluminum painted, SAPL - stackable aluminum painted, low profile | "22" = Voltage ... Standard AC voltages are "11" (115VAC), "22" (230VAC), "11/22" or "1/2" (115/230 dual VAC) | "1" = Speed ... AC Fans are generally available as "1" (high speed), "2" (medium speed), "3" (low speed) | "T" = Termination ... AC Fans are available (except as noted) with power connection terminals (T) or with 12" Lead wires (W) | B = Bearing Type ... Standard bearing types are "B" (ball bearing) and "S" (sleeve bearing) Sometimes followed by XC indicating high performance | 18 = Special Function Code ... A suffix after the bearing designator usually indicates a specific modification to the fan. In this case "18" indicates a metal impeller which is different from the Thermoplastic impeller which comes standard on this model |

| Building a DC Part Number: OD1238-12HTB01 (Note: some models will include a "C" or an "XC" in the part number)   |                                                                                                                         |                                                                                                                                               |                                                                                                   |                                                                                                                                                                                                   |                                                                                                                                  |                                                                                                              |                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OD                                                                                                               | 1238                                                                                                                    | -                                                                                                                                             | 12                                                                                                | H                                                                                                                                                                                                 | T                                                                                                                                | B                                                                                                            | 01                                                                                                                                                                        |
| OD = Orion DC ... Orion DC fan part numbers will generally begin with "OD" (Orion DC) or "ODB" (Orion DC Blower) | "1238" = Model Number ... Model numbers designate frame sizes. In this case "1238" will always refer to a 120X38mm fan. | [blank] = Frame Construction ... PT or blank - Thermoplastic construction. AP - diecast aluminum black SAP - stackable diecast aluminum black | "12" = Voltage ... Standard DC voltages are "05" (5VDC), "12" (12VDC), "24" (24VDC), "48" (48VDC) | "H" = Speed ... DC Fans are generally available as "H" (high speed), "M" (medium speed), "L" (low speed) "HH" (extra high speed) and "LL" (extra low speed) "V" (vaneaxial) "XC" high performance | "T" = Termination ... DC Fans are available (except as noted) with power connection terminals (T) or with 12" Lead wires [blank] | B = Bearing Type ... Standard bearing types are "B" (ball bearing) and "S" (sleeve) and "SS" (sealed sleeve) | 01 = Special Function Code ... A suffix after the bearing designator usually indicates a specific modification to the fan. In this case "01" indicates a 5VTTL tach o/p * |

|        |                                   |
|--------|-----------------------------------|
| [none] | Standard                          |
| 01     | Tachometer Output 5VTTL*          |
| 02     | Alarm Output 5VTTL *              |
| 03     | Thermistor Speed Control (hub)    |
| 04     | Thermistor Speed Control (wire)   |
| 05     | PWM Input                         |
| 06     | Dual Speed                        |
| 07     | Temperature Sensor                |
| 08     | Tachometer* + Alarm*              |
| 09     | Tachometer* + Thermistor          |
| 10     | Tachometer* + PWM                 |
| 11     | Tachometer* + Temperature Sensor  |
| 12     | Alarm* + Thermistor               |
| 13     | Alarm* + PWM                      |
| 14     | Alarm* + Temperature Sensor       |
| 15     | Tachometer* + Alarm* + PWM        |
| 16     | Tachometer* + Alarm* + Thermistor |
| 17     | Extra Long Lead Wires             |
| 18     | Metal Impeller                    |
| 19     | High Temperature                  |
| 20     | Conformal Coating                 |
| 21     | Customized                        |
| 55     | IP-55                             |

\* To specify "open collector" instead of 5VTTL please add the letter "a" after the "Special Function Code".

Additional suffixes consisting of both numbers and letters may be applied for multiple fan modifications .

Special function codes will not appear on the fan label unless specified by the customer.