ZKFP, ZKFN and ZKFD Mini Split DC Fan Motors: Part Numbers and Wire Checks

In MRCOOL's DIY 5th Gen service manual, the DC fan motor plug carries red = DC supply (Vs/Vm), black = ground, white = control supply (Vcc), yellow = speed command (Vsp) and blue = speed feedback (FG). With the unit powered in standby, measure red and white to black: a reading out of range points to the board, not the motor. A 3-wire outdoor motor, driven from the outdoor board, should read the same across U-V, U-W and V-W with the power off.

All mini split fan motors: hvacexpressparts.com/categories/fan-motors
Search ZKFP, ZKFN and ZKFD motors: hvacexpressparts.com/search?q=ZKF
Not sure which part? Match the number printed on your old part, or call (786) 223-7655, Mon–Fri 9 AM–5 PM ET.

PIN AND WIRE	SIGNAL	INDOOR OR OUTDOOR MOTOR (P. 60, UNDER EH 03)	OUTDOOR SINGLE-FAN MOTOR (P. 62, UNDER EC 07)
5-wire plug, control chip inside the motor: unit powered in standby, meter from pin 1 and pin 4 to pin 3 (black)			
Pin 1 · red	Vs/Vm, DC supply to the motor	192–380 V on 220–240 V units; 140–190 V on 115 V units	192–380 V
Pin 2	No wire	—	—
Pin 3 · black	GND, ground	0 V	0 V
Pin 4 · white	Vcc, control supply	14–17.5 V	13.5–16.5 V
Pin 5 · yellow	Vsp, speed command	0–5.6 V	0–6.5 V
Pin 6 · blue	FG, speed feedback	14–17.5 V	13.5–16.5 V

Fan motors we list: ZKFP, ZKFN and ZKFD first

Match the motor code and the OEM number on your old motor's label; indoor or outdoor is shown only where our listing title states it. The plug check above is for 5-wire DC motors with the control chip inside and comes from the MRCOOL manual, not from these listings. The motors after the ZKFD rows are listed without a check.

PART NUMBER	PART
ZKFP-20-8-6-7	Indoor brushless DC motor · OEM 11002015000051
ZKFP-20-8-6-7	Indoor brushless DC motor · OEM 11002015000150
ZKFP-20-8-113	Indoor brushless DC motor · OEM 11002015006201
ZKFP-20-8-113	Brushless DC motor · OEM 11002015A01617
ZKFP-58-8-1-5	Indoor brushless DC motor · OEM 11002015008646

PART NUMBER	PART
ZKFP-58-8-1-5	Brushless DC motor · OEM 11002015A01177
ZKFP-124-8-2	Indoor brushless DC motor · OEM 11002015000281
ZKFN-34-10-1-3	Outdoor brushless DC motor · OEM 11002015012128
ZKFN-34-10-1-3	Brushless DC motor · OEM 11002015018558
ZKFN-50-8-2-3	Outdoor brushless DC motor · OEM 11002015008365
ZKFN-50-8-2-3	Brushless DC motor · OEM 11002015A00817
ZKFN-80-8-3	Outdoor brushless DC motor · OEM 11002015000366
ZKFN-80-8-3	Brushless DC motor · OEM 11002015A01198
ZKFN-85-8-22-5	Outdoor brushless DC motor · OEM 11002015009825
ZKFN-85-8-22-5	Brushless DC motor · OEM 11002015A01137
ZKFN-85-8-22-5	Brushless DC motor · OEM 11002015A01859
ZKFN-120-8-2	Brushless DC motor · OEM 11002015A00096
ZKFN-120-8-2	Outdoor brushless DC motor · OEM 11002015000247
ZKFN-160-8-1-2	Indoor brushless DC motor · OEM 11002015002521
ZKFN-300-8-1	Indoor brushless DC motor · OEM 11002015002541
ZKFD-250-8-1	Brushless DC motor · OEM 11002015A01857
ZKFD-250-8-1	Brushless DC motor · OEM 11002015013969
ZKFD-250-10-4	Brushless DC motor · OEM 11002015021278
ZKFD-375-8-1-1	Brushless DC motor · OEM 11002015015864
ZKFD-375-8-1-1	Brushless DC motor · OEM 11002015A01878
ZKFD-375-10-4	Brushless DC motor · OEM 11002015021277
ZKFD-560-8-1-1	Brushless DC motor · OEM 11002015015862
ZKFD-560-8-1-1	Brushless DC motor · OEM 11002015A01860
ZKFD-750-8-1-1	Brushless DC motor · OEM 11002015015863
ZKFD-750-8-1-1	Brushless DC motor · OEM 11002015A01858
ZKFD-750-10-4	Brushless DC motor · OEM 11002015021292
1501213401	Fan motor
FN10D-ZL	Fan motor · OEM 15013314
TWZ30-A04	Fan motor · OEM 1501308507
YSK-20W-4	Fan motor · OEM 15704111
YSK15-4A	Fan motor · OEM 1570940901
YSK50-4C	Fan motor · OEM 15709409

PART NUMBER	PART
YY011-956P01-001	Fan motor · OEM 1570411401
YY060-1208P01-002	Fan motor · OEM 1501506302
YYR10-4A7-PG	Fan motor · OEM 1501209302
YYR20-4A10-PG	Fan motor · OEM 1501211601
ZW584D013	Fan motor · OEM 15702802
ZWR25-A	Fan motor · OEM 1501212701
ZWR30-G	Fan motor · OEM 15012123
ZWS40-D	Fan motor · OEM 1501307901
ZWS60-M	Fan motor · OEM 1501506402
ZWS92-K	Brushless DC motor · OEM 15010400000102

Safety. Pin 1 carries up to 380 V, so the plug checks are live work for a qualified technician. Disconnect power and discharge the capacitors before you unplug the motor or measure resistance; sealed-system work goes to an EPA Section 608 certified technician.

Returns. Parts that were not installed, connected or used can be returned within 30 days: hvacexpressparts.com/refund-policy.

Source. Plug readings from: MRCOOL, DIY Series Single-Zone Mini-Split System Service Manual (models DIY-*-HP-WMAH/C-115/230D25-O), version date April 20, 2026, section 4.7, checks TS04-S-IDU (page 60) and TS04-ODU (page 62). The readings are for the units this manual covers and the manual gives them for reference; other units can differ, so confirm in your unit's manual. Pin 1 carries up to 380 V: disconnect power and let the capacitors discharge before you unplug the motor or take resistance readings.

Find your part. Search the number on your old part, or look up your unit in our Parts Finder: hvacexpressparts.com/parts-finder.

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