



U75 - 10 W

TIS U75/11/13/CE

Technical Information Sheet

[KEB/GTW_GMN] V2

Regulated Speed, Water Cooled

[Eng. Vers. 4] 03.02.2021

Performance Data		U75 - 10 W										
Maximum working pressure		bar g	10,0									
Minimum working pressure		bar g	4,0									
Ambient temperature - min/max		°C	1 to 45									
			min. speed	speed 1	speed 2	speed 3	speed 4	max. speed				
4 bar	FAD* (Male rotor speed 1st Stage - rpm)	m ³ /min	6,70 (5126)	8,67 (6267)	10,65 (7427)	12,62 (8610)	14,60 (9817)	16,57 (11049)				
	Total input power* (P spec. - kW min/m ³)	kW	37,60 (5,61)	45,40 (5,23)	53,65 (5,04)	62,52 (4,95)	72,00 (4,93)	82,10 (4,95)				
5 bar	FAD*	m ³ /min	6,70 (5225)	8,44 (6221)	10,18 (7233)	11,93 (8263)	13,67 (9310)	15,41 (10377)				
	Total input power*	kW	41,98 (6,27)	49,28 (5,84)	56,90 (5,59)	64,98 (5,45)	73,50 (5,38)	82,46 (5,35)				
6 bar	FAD*	m ³ /min	6,70 (5306)	8,20 (6162)	9,70 (7030)	11,20 (7909)	12,70 (8800)	14,20 (9705)				
	Total input power*	kW	46,37 (6,92)	53,02 (6,47)	59,90 (6,18)	67,09 (5,99)	74,59 (5,87)	82,40 (5,80)				
7 bar	FAD*	m ³ /min	6,70 (5363)	7,98 (6101)	9,25 (6844)	10,53 (7595)	11,81 (8353)	13,08 (9119)				
	Total input power*	kW	50,73 (7,57)	56,74 (7,11)	62,89 (6,80)	69,25 (6,58)	75,84 (6,42)	82,63 (6,32)				
7,5 bar	FAD*	m ³ /min	6,70 (5394)	7,86 (6070)	9,03 (6751)	10,19 (7437)	11,35 (8129)	12,52 (8825)				
	Total input power*	kW	52,96 (7,90)	58,59 (7,45)	64,33 (7,13)	70,24 (6,89)	76,33 (6,72)	82,59 (6,60)				
8 bar	FAD*	m ³ /min	6,70 (5433)	7,75 (6046)	8,80 (6662)	9,85 (7281)	10,90 (7905)	11,95 (8532)				
	Total input power*	kW	55,28 (8,25)	60,48 (7,80)	65,77 (7,48)	71,19 (7,23)	76,76 (7,04)	82,47 (6,90)				
8,5 bar	FAD*	m ³ /min	6,95 (5631)	7,85 (6155)	8,75 (6682)	9,64 (7211)	10,54 (7743)	11,44 (8278)				
	Total input power*	kW	58,99 (8,49)	63,53 (8,10)	68,15 (7,79)	72,87 (7,56)	77,69 (7,37)	82,62 (7,22)				
9 bar	FAD*	m ³ /min	7,20 (5838)	7,94 (6272)	8,69 (6707)	9,43 (7144)	10,18 (7583)	10,92 (8024)				
	Total input power*	kW	62,84 (8,73)	66,68 (8,39)	70,58 (8,12)	74,54 (7,90)	78,59 (7,72)	82,70 (7,57)				
10 bar	FAD*	m ³ /min	7,70 (6260)	8,13 (6510)	8,57 (6760)	9,00 (7011)	9,44 (7263)	9,87 (7515)				
	Total input power*	kW	70,84 (9,20)	73,15 (8,99)	75,49 (8,81)	77,85 (8,65)	80,24 (8,50)	82,64 (8,37)				
Total input power at no load with fan (@rpm)		kW	8 (2050 1st Stage, 5600 2nd Stage)									
Male rotor speed 1st stage (min/max)		rpm	5126 to 11049									
Male rotor speed 2nd stage (min/max)		rpm	8500 to 20546									
Free field noise level ** at 70% load / at 100% load		dB(A)	63 / 63									
Electrical Data												
Nominal motor rating (1st Stage / 2nd Stage)		kW	75 (37,5/37,5)									
Nominal voltage / Frequency [tolerance]		/	400V/50Hz [±10%]									
Full load current max. at 400V		A	133,0									
Starting current (max. % of full load current)		%	100,0									
Standard drive motor detail 1st Stage / 2nd Stage		/	IP55 (>IE-4)									
Drive motor speed min./max. 1st stage		rpm	5126 to 11049									
Drive motor speed min./max. 2nd stage		rpm	8500 to 20546									
Fan motor rating (Package cooling)		kW	0,37 (IP-54)									
Oil pump motor rating		kW	0,55 (IP-55)									
Water pump motor rating		kW	1,50 (IP-55 / IE3)									
Suggested cable size at 400V (max.30°C / max. 50m / Copper)		mm ²	3x 50 PE 25									
Suggested fuse rating at 400V (type gG)		AgG	3x 160									
Cooling Data												
Ventilating fan capacity		m ³ /min	NA									
Heat rejected by ventilating fan (max % of actual input power)		%	NA									
Size of cooling air inlet aperture		mm	NA									
Approx. cooling air temperature above ambient (at max. power)		°C	NA									
Temperature increase Cooling Water (ΔT)		K	10	15	20	25	30	35	40	45	50	
Cooling water capacity		l/min	125	74	56	45	38	34	29	23	22	
pressure drop cooling water (Δp)		bar	2,00	0,75	0,50	0,30	0,25	0,20	0,15	0,12	0,12	
Approx. discharge temp. of air above inlet cooling water (at max Power)		K	1,0	1,5	2,5	3,1	4,8	5,2	7,3	8,0	9,2	
Cooling water inlet temperature min./max.		°C	5/45									
Cooling water outlet temperature max. (Standard / HRC)		°C	55/90									
Cooling water pressure max.		bar g	8,0									
Cooling water connection inlet / outlet (female thread)		/	QuickVic (Victaulic) NW25 ; EN 10226-1 Rp 1 1/4" (R 1 1/4")									
Weights, Dimensions and Capacities Data												
Compressor water capacity		l	15,0									
Compressor oil capacity		l	24,0									
Compressed air delivery connection		/	Outside thread DIN EN 10226-1 R3*									
Condensate Drains		/	4 x G1/2"									
Weight		kg	2750,0									
Package dimensions L x W x H		mm	2168 x 1394 x 1992									

* Data measured and stated in accordance with ISO1217 4rd Edition Annex C & E and at the following conditions:

Air Intake Pressure: 1 bar a / 14.5 psia

Air Intake Temperature: 20°C / 68°F

Humidity: 0% (dry)

** Measured in free field conditions in accordance with the ISO 2151, tolerance ± 3dB(A).

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications without prior notice.