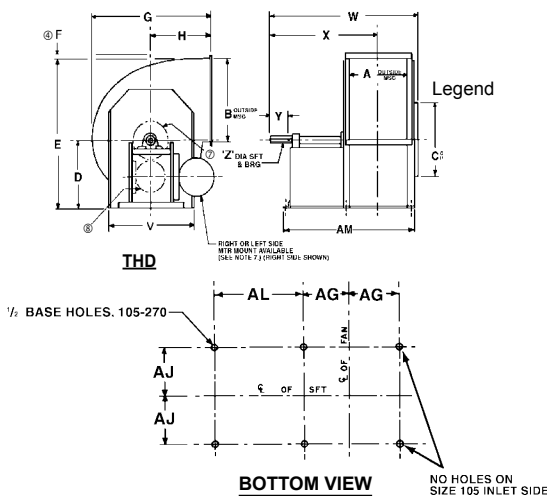


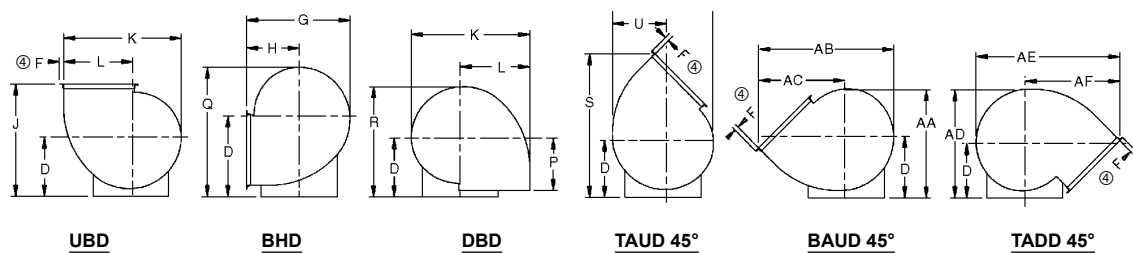
# VCR

## BI & AF - Arrangement 1, 4, 9 & 10, Class I & II



### Notes

1. CW rotation shown; CCW rotation similar but opposite.
2. AF available in sizes 182 through 270.
3. BI available in sizes 105 through 270.
4. Discharge angles optional on all sizes.  
(Hole punching optional on all sizes.)
5. On specific sales orders, see Fan Data Schedule for performance and accessory information.
6. On Arrangement 9, the standing motor position is left side for CW units and right side for CCW units.
7. Dimensions for Arrangement 4 are the same as shown except motor is mounted on pedestal in lieu of shaft and bearings.
8. On Arrangement 10, the motor is located within the pedestal.
9. Housing is field rotatable to the discharges shown.
10. Unit size 105 has no inlet stand.



### Dimensional Data


Size	A	B	C	"D" Centerline of Fan						E	F	G	H	J	K	L	P	Q	R	S	T	
				THD	UBD	BHD	DBD	TAUD	BAUD													TADD
105	8 3/8	11 3/16	11 1/8	18	18	18	18	18	18	18	29 1/8	1 1/4	17 11/16	8 5/8	26 5/8	19 1/8	11 1/8	8 5/8	26	27 1/16	32	17
122	9 3/4	13	13 1/4	20	20	20	20	20	20	20	32 15/16	1 1/4	20 13/16	10 1/4	30 1/4	22 1/4	12 15/16	10 1/4	29 5/16	30 9/16	36 7/16	19 7/8
135	10 13/16	14 5/16	14 9/16	20	20	20	20	20	20	20	34 1/4	1 1/4	22 7/8	11 1/4	31 1/4	24 1/2	14 1/4	11 1/4	30 1/4	31 5/8	38	21 7/8
150	11 15/16	15 7/8	16 3/16	22	22	22	22	22	22	22	37 13/16	1 1/4	25 7/16	12 1/2	34 1/2	27 1/4	15 13/16	12 1/2	33 7/16	34 15/16	42	24 5/16
165	13 3/16	17 3/8	17 3/4	23	23	23	23	23	23	23	40 5/16	1 1/4	28	13 3/4	36 3/4	29 7/8	17 5/16	13 3/4	35 9/16	37 1/4	45	26 3/4
182	14 3/8	19 3/8	19 1/2	23	23	23	23	23	23	23	42 5/16	1 1/4	30 3/16	14 1/2	37 1/2	33 1/8	19 5/16	14 1/2	36 13/16	38 11/16	46 15/16	29 5/8
200	16	21 1/4	21 3/8	26	26	26	26	26	26	26	47 3/16	1 1/4	32 7/8	15 5/8	41 5/8	36 3/8	21 3/16	15 5/8	41 3/16	43 1/4	52 1/16	32 1/2
222	17 1/2	23 5/8	23 3/4	26	26	26	26	26	26	26	49 9/16	1 1/4	36 5/8	17 1/2	43 1/2	40 7/16	23 9/16	17 1/2	42 7/8	45 1/8	55	36
245	19 1/2	25 15/16	26 1/16	28	28	28	28	28	28	28	53 7/8	1 1/4	40 5/16	19 1/4	47 1/4	44 7/16	25 7/8	19 1/4	46 9/16	49 1/16	60	39 3/4
270	21 9/16	28 5/8	28 1/2	31	31	31	31	31	31	31	59 9/16	1 1/4	44 5/16	21 1/8	52 1/8	49	28 9/16	21 1/8	51 7/16	54 3/16	67	43 3/4

Size	U	V	W	X	Y	Z - CLASS I		Z - CLASS II		AA	AB	AC	AD	AE	AF	AG	AJ	AL	AM	Max Mtr. Frame ARRG. 9 & 10 ODP & TEFC
						SFT	KWY	SFT	KWY											
						105	9 9/16	13 7/16	25 9/16											
122	11 3/16	17 3/16	32	23 7/8	2 1/2	1	1/4 x 1/8	1 3/16	1/4 x 1/8	28 11/16	26 3/8	16 7/16	31 3/16	31 11/16	21 3/4	5 7/8	7 3/4	16	29	184T
135	12 5/16	17 11/16	33 1/8	24 7/16	2 1/2	1	1/4 x 1/8	1 3/16	1/4 x 1/8	29 9/16	28 15/16	18	32 5/16	34 5/16	23 3/8	6 7/16	7 3/4	16	30 1/8	184T
150	13 11/16	19 11/16	37 3/4	28 1/2	3	1	1/4 x 1/8	1 3/16	1/4 x 1/8	32 5/8	32 3/16	20	35 11/16	37 7/16	25 1/4	6 15/16	8 3/4	19	34 1/8	213T
165	15 1/16	20 11/16	39	29 1/8	3	1 3/16	1/4 x 1/8	1 7/16	3/8 x 3/16	34 11/16	35 3/8	22	38 1/16	40 3/8	27	7 9/16	9 1/4	19	35 3/8	215T
182	16 5/8	22 11/16	41 1/8	30 3/16	3 1/2	1 3/16	1/4 x 1/8	1 7/16	3/8 x 3/16	36	38 11/16	23 15/16	39 5/8	44 1/8	29 3/8	8 3/16	9 1/4	19	36 5/8	215T
200	18 1/4	25 3/16	47 3/4	36	3 1/2	1 3/16	1/4 x 1/8	1 7/16	3/8 x 3/16	40 1/4	42 1/4	26 1/16	44 1/4	47 5/8	31 7/16	9 1/4	11	24	44 1/4	254T
222	20 3/8	27 3/16	49 1/2	37	4	1 7/16	3/8 x 3/16	1 11/16	3/8 x 3/16	41 5/8	47	29	46 3/8	52 1/2	34 1/2	10	11	24	45 3/4	254T
245	22 3/8	29 15/16	53	39 1/2	4 1/2	1 7/16	3/8 x 3/16	1 11/16	3/8 x 3/16	45 3/8	51 3/4	32	50 3/8	57 7/16	37 5/8	11	12	25	48 3/4	256T
270	24 3/4	33 3/16	55 1/8	40 9/16	4 1/2	1 7/16	3/8 x 3/16	1 11/16	3/8 x 3/16	50	56 15/16	35 1/8	55 3/4	62 7/16	40 5/8	12	12 1/2	25	50 3/4	256T

Tolerance ± 1/8

Not to be used for construction.

Certified drawings available upon request.

 <p><b>PENNBARRY™</b></p> <p>1401 North Plano Road, Richardson, TX 75081 Ph: 972.234.3202 Fax: 972.497.0468 www.PennBarry.com</p>	<h2 style="margin: 0;">Submittal Sheet</h2> <h3 style="margin: 0;">VCR</h3> <h4 style="margin: 0;">BI &amp; AF</h4> <h4 style="margin: 0;">Arrangement 1, 4, 9 &amp; 10, Class I &amp; II</h4>
--	--

This drawing illustrates our understanding of order requirements. When approved, it represents details for fabrication, as such, PennBarry will not be responsible for revisions in the field or other changes after release for fabrication. Published and protected by PennBarry, Richardson, TX. All rights reserved. May not be reproduced partially or in full without permission from the publisher. No rights conveyed to manufacture partially or in full, use or sell either the method of construction represented or any invention in any way related thereto.

**Form ES-VCR-1,4,9,10,CI&II**  
Revised March 2005