

PEM 81, 82 and 83 are made of bronze and brass and are stainless steel fitted.

PEM 80 Series Fan Jets have built in ball joints that permit directional adjustment to 15° off center line. For wall mounted gargoyles fountains, the jets are installed horizontal, with mouth of jet pointing up, the movable part of the jet depressed 5° downward, directing the outflowing water up and forward over the tip of the jet, hiding the same. Only lowest performances are used for these small but enchanting solid sheet of water spray effects.

### 160° Fan Jets

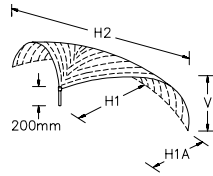
# PEM 80 SERIES

#505-7000

#### DIMENSIONS :

PEM #	81 505-7110	82 505-7120	83 505-7130
T	1/2"(male)	3/4"(female)	1"(female)
OV	76mm\3.0"	96mm\3.75"	114mm\4.49"
OD*	22mm\0.87"	37mm\1.46"	46mm\1.81"
SS	3.2mm\0.125"	4.8mm\0.187"	6mm\0.25"

\* = Top of Nozzle only

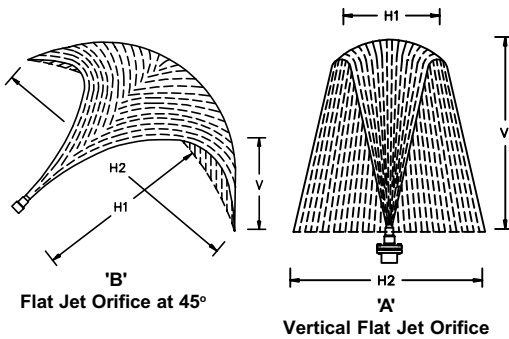


#### PERFORMANCES :

PEM H1	81					82					83				
H1	H2	H1A	V	FL	MC	H2	H1A	V	FL	MC	H2	H1A	V	FL	MC
(A)	(B)					(C)					(D)				
(Old Style)	(B)					(C)					(D)				
m	m	m	m	L	m	m	m	m	L	m	m	m	m	L	m
0.60	0.60	0.36	0.18	10	1.2	1.53	0.46	0.18	19	1.2	2.15	0.46	0.18	38	1.2
1.20	1.53	0.51	0.28	14	1.9	2.15	0.54	0.28	35	1.9	2.44	0.51	0.26	65	1.6
1.80	2.40	0.69	0.51	17	2.5	2.75	0.64	0.46	38	2.5	3.05	0.66	0.41	88	2.2
2.40	3.30	0.87	0.66	20	3.1	3.35	0.77	0.61	46	2.8	3.66	0.77	0.56	103	2.8
3.00	4.60	1.10	0.77	21	3.7	4.27	0.94	0.74	53	3.4	4.30	0.95	0.66	114	3.4
Ft	Ft	Inch.	Inch.	G	Ft	Ft	Inch.	Inch.	G	Ft	Ft	Inch.	Inch.	G	Ft
2	2	14"	7"	2.6	4.0	5	18"	7"	5.0	4.0	7	18"	7"	10	4.0
4	5	20"	11"	3.5	6.0	7	21"	11"	9.0	6.0	8	20"	10"	17	5.0
6	8	27"	20"	4.4	8.0	9	25"	18"	10.0	8.0	10	26"	16"	23	7.0
8	10	34"	26"	5.1	10.0	11	30"	24"	12.0	9.0	12	30"	22"	27	9.0
10	15	43"	30"	5.5	12.0	14	37"	29"	14.0	11.0	14	37"	26"	30	11.0

(With Jet in Vertical Position and orifice 200mm\7.88" above waterlevel):

CODES > PAGE 500-B



### 50° Fan Jets

# PEM 90 SERIES

#505-8000



PEM 90 Series Fan Jets are made of cast bronze and brass, stainless steel fitted. PEM 90 Series Fan Jets have a built in ball joint, permitting directional adjustment to 15° off center line, also full rotational adjustment of nozzle.

#### DIMENSIONS :

PEM #	91 505-8110	92 505-8120	93 505-8130	94 505-8140	95 505-8150	96 505-8160
T	3/4"	1"	1 1/4"	1 1/2"	2"	3"
OV	90mm\3.500"	100mm\3.950"	135mm\5.300"	140mm\5.500"	210mm\8.300"	250mm\9.800"
SS	2.0mm\0.079"	3.2mm\0.125"	4.7mm\0.187"	6.0mm\0.250"	8.3mm\0.325"	9.6mm\0.375"

For best performances the jets must be operated with undisturbed & linear flowing water supply.

The use of flow straighteners is recommended. For solid sheet of water effects see the lowest performances.

#### PERFORMANCES with Vertical Flat Orifice ('A'):

PEM	91				92				93				94				95				96			
V	H1	H2	FL	MC	H1	H2	FL	MC	H1	H2	FL	MC	H1	H2	FL	MC	H1	H2	FL	MC	H1	H2	FL	MC
m	m	m	L	m	m	m	L	m	m	m	L	m	m	m	L	m	m	m	L	m	m	m	L	m
0.50	0.20	0.40	7	0.80	0.30	0.50	12	0.70	0.4	0.60	15	0.70	0.30	0.50	26	0.70	0.50	0.80	40	0.70	0.60	1.20	106	0.70
1.00	0.80	1.20	9	1.50	0.80	1.50	17	1.40	0.8	1.50	19	1.40	1.20	1.60	38	1.30	1.00	2.00	63	1.30	1.50	2.40	152	1.30
1.50	1.80	3.20	13	3.00	2.00	3.50	34	2.50	1.5	2.50	34	2.50	1.60	2.40	52	2.30	1.60	2.60	74	2.30	2.00	3.60	231	2.20
2.00					2.0	3.00	45	3.20	2.0	3.80	69	3.10	3.00	4.20	87	3.00	3.00	4.20	87	3.00	3.20	5.00	300	3.10
3.00					3.5	5.00	75	4.30	4.00	6.00	98	4.20	4.00	6.00	114	4.20	4.00	6.50	144	4.20	4.00	6.50	448	4.10
Inches	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft
20"	8"	16"	1.9	2.7	10"	20"	3.2	2.3	16"	24"	4.0	2.3	12"	20"	7	2.3	20"	31"	11	2.3	24"	47"	28	2.3
40"	31"	47"	2.4	5.0	31"	59"	4.5	4.7	31"	59"	5.1	4.5	47"	63"	10	4.3	39"	79"	17	4.3	59"	94"	41	4.3
60"	71"	126"	3.5	10	79"	138"	6.9	8.7	59"	98"	9.0	8.3	63"	94"	14	7.7	63"	102"	20	7.3	79"	142"	61	7.3
80"					79"	118"	12	11	79"	150"	19	11	118"	165"	23	11	118"	165"	23	11	126"	197"	80	11
120"					138"	197"	20	15	157"	236"	31	14	157"	236"	26	15	157"	236"	26	15	157"	256"	119	14

#### PERFORMANCES with Flat Jet Orifice at Waterlevel and at 45° ('B')

H1	V	H2	FL	MC	V	H2	FL	MC	V	H2	FL	MC	V	H2	FL	MC	V	H2	FL	MC	V	H2	FL	MC
m	m	m	L	m	m	m	L	m	m	m	L	m	m	m	L	m	m	m	L	m	m	m	L	m
0.50	0.05	0.08	5	0.60	0.10	0.10	8	0.60	0.15	0.30	16	0.60	0.10	0.15	20	0.50	0.15	0.30	29	0.5	0.12	0.50	80	0.50
1.00	0.15	0.20	7	1.00	0.15	0.20	11	1.00	0.25	0.80	24	0.90	0.25	0.60	24	0.90	0.30	0.60	46	0.9	0.20	0.80	102	0.90
1.50	0.25	0.50	8	1.30	0.30	0.40	13	1.30	0.50	1.20	28	1.30	0.30	0.90	30	1.30	0.50	1.30	60	1.2	0.40	2.10	136	1.20
2.00	0.60	1.20	12	2.40	0.60	1.00	27	2.30	0.90	2.50	30	2.10	0.60	2.00	44	2.10	0.90	3.20	87	2.0	1.20	3.80	178	2.00
3.00					1.20	3.60	43	3.10	1.20	3.60	60	3.00	1.50	4.40	110	3.0	1.50	4.40	110	3.0	1.50	5.60	260	3.00
Inches	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft	Inch.	Inch.	G	Ft
20"	2"	3"	1.3	2	4"	4"	2.2	2	6"	6"	4.3	2	4"	6"	6	2	6"	12"	8	2	5"	20"	22	2
40"	6"	8"	1.9	4	6"	8"	3.0	4	10"	31"	6.4	3	10"	24"	7	3	12"	24"	13	3	8"	31"	27	3
60"	10"	20"	2.2	5	12"	16"	3.5	5	18"	47"	7.4	5	12"	35"	8	5	18"	51"	16	4	16"	83"	36	4
80"	24"	47"	3.2	8	24"	39"	7.2	8	35"	98"	8.0	7	24"	79"	12	7	35"	126"	23	7	47"	150"	48	7
120"					47"	142"	12	11	47"	142"	16	10	59"	173"	30	10	59"	173"	30	10	59"	220"	69	11

Performances beyond the given values are normally not considered to be decorative fountain spray effects.