

rapid  *spray*

ISJ
INTERNATIONAL SPRAY-JETS

n o z z l e s a n d a c c e s s o r i e s



Symbols



Specific accessory for computers



Operating pressure



Flow rate



Minimum available package



Minimum available package



New items

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Australian Stock

Nozzle		Herbicides		
Name	Series	Soil incorporated	Pre emergent	Post
				Contact
 Fan air ceramic	AFC	VERY GOOD	VERY GOOD	GOOD
 Deflector	DEF	EXCELLENT	EXCELLENT	GOOD
 Deflector 140	DEF140	GOOD	GOOD	
 Evenfan	EF	GOOD	GOOD	VERY GOOD
 Hollowcone	HC			EXCELLENT
 Hollowcone ceramic	HCC			EXCELLENT
 Low drift	LD	EXCELLENT	EXCELLENT	GOOD
 Low drift ceramic	LDC	EXCELLENT	EXCELLENT	GOOD
 Standard flat fan	SF	GOOD	GOOD	GOOD
 Standard fan ceramic	SFC	GOOD	GOOD	GOOD
 Standard fan air	SFA	VERY GOOD	VERY GOOD	GOOD
 Twin fan standard	TFS			EXCELLENT
 Twin fan air	TFA	EXCELLENT	EXCELLENT	GOOD
 Twin fan low drift	TFLD	EXCELLENT	EXCELLENT	GOOD
 Tilt 30	TLT			GOOD
 Wide range	WR	EXCELLENT	EXCELLENT	EXCELLENT
 Wide range ceramic	WRC	EXCELLENT	EXCELLENT	EXCELLENT

	Fungicides		Insecticides	
emergent	Contact	Systemic	Contact	Systemic
Systemic				
EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
EXCELLENT		GOOD		GOOD
GOOD		GOOD		GOOD
GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD
GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
GOOD	GOOD	GOOD	GOOD	GOOD
GOOD	GOOD	GOOD	GOOD	GOOD
EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT



STANDARD FLAT FAN



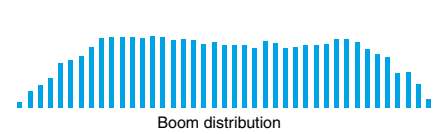
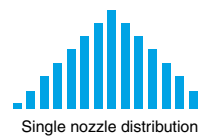
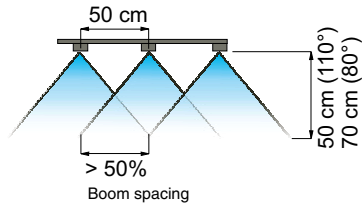
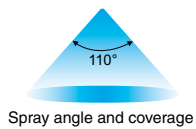
The Standard Flat Fan nozzles produce a narrow elliptical spray pattern and triangular distribution. When mounted on a boom and correctly spaced at the correct height from the target they prompt a uniform coverage.

FEATURES

- Available in two spray angles of 80° and 110°.
- Precision moulded in polyacetal, a highly stable polymeric material with outstanding wear characteristics.
- Colour coded (in accordance with ISO10625) for quick identification of flow rate.

APPLICATIONS

- Used for broadcast application of pre and post emergent herbicides, fungicides and insecticides.
- Used with knapsack sprayers where the nozzles are used in conjunction with a 2, 3 or 4 nozzle boom fitted to the hand lance, reducing the application time.



SPRAY QUALITY CLASSIFICATION

Code 110°	Code 80°	2 bar	2.5 bar	3 bar	3.5 bar	4 bar
SF11001	SF08001	F	F	F	F	F
SF110015	SF080015	F	F	F	F	F
SF11002	SF08002	F	F	F	F	F
SF110025	NA	M	F	F	F	F
SF11003	SF08003	M	M	F	F	F
SF11004	SF08004	M	M	M	M	M
SF11005	SF08005	M	M	M	M	M
SF11006	SF08006	M	M	M	M	M
SF11008	SF08008	M	M	M	M	M
SF11010	SF08010	C	C	M	M	M
SF11015	NA	VC	C	C	M	M

Very Fine (VF)	Fine (F)	Medium (M)	Coarse (C)	Very Coarse (VC)
< 119µm	119µm ÷ 216µm	217µm ÷ 353µm	354µm ÷ 464µm	> 464µm

µm = millionth millimeter (Eg.: 250µm = 0.25 mm)





Code 110°	 bar	 l/min	l/ha (nozzle spacing: 50 cm)							Code 80°
			6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h	
SF11001	2	0.33	66	50	40	33	28	25	22	SF08001
	2.5	0.37	74	56	44	37	32	28	25	
	3	0.40	80	60	48	40	34	30	27	
	3.5	0.43	86	65	52	43	37	32	29	
SF110015	4	0.46	92	69	55	46	39	35	31	SF080015
	2	0.49	98	74	59	49	42	37	33	
	2.5	0.55	110	83	66	55	47	41	37	
	3	0.60	120	90	72	60	51	45	40	
SF11002	3.5	0.65	130	98	78	65	56	49	43	SF08002
	4	0.69	138	104	83	69	59	52	46	
	2	0.65	130	98	78	65	56	49	43	
	2.5	0.73	146	110	88	73	63	55	49	
SF110025	3	0.80	160	120	96	80	69	60	53	NA
	3.5	0.86	172	129	103	86	74	65	57	
	4	0.92	184	138	110	92	79	69	61	
	2	0.82	164	123	98	82	70	62	55	
SF11003	2.5	0.91	182	137	109	91	78	68	61	SF08003
	3	1.00	200	150	120	100	86	75	67	
	3.5	1.08	216	162	130	108	93	81	72	
	4	1.15	230	173	138	115	99	86	77	
SF11003	2	0.98	196	147	118	98	84	74	65	SF08003
	2.5	1.10	220	165	132	110	94	83	73	
	3	1.20	240	180	144	120	103	90	80	
	3.5	1.30	260	195	156	130	111	98	87	
SF11004	4	1.39	278	209	167	139	119	104	93	SF08004
	2	1.31	262	197	157	131	112	98	87	
	2.5	1.46	292	219	175	146	125	110	97	
	3	1.60	320	240	192	160	137	120	107	
SF11005	3.5	1.73	346	260	208	173	148	130	115	SF08005
	4	1.85	370	278	222	185	159	139	123	
	2	1.63	326	245	196	163	140	122	109	
	2.5	1.83	366	275	220	183	157	137	122	
SF11006	3	2.00	400	300	240	200	171	150	133	SF08006
	3.5	2.16	432	324	259	216	185	162	144	
	4	2.31	462	347	277	231	198	173	154	
	2	1.96	392	294	235	196	168	147	131	
SF11006	2.5	2.20	440	330	264	220	189	165	147	SF08006
	3	2.40	480	360	288	240	206	180	160	
	3.5	2.60	520	390	312	260	223	195	173	
	4	2.80	560	420	336	280	240	210	187	
SF11008	2	2.61	522	392	313	261	224	196	174	SF08008
	2.5	2.92	584	438	350	292	250	219	195	
	3	3.20	640	480	384	320	274	240	213	
	3.5	3.46	692	519	415	346	297	259	231	
SF11010	4	3.70	740	555	444	370	317	277	247	SF08010
	2	3.27	654	491	392	327	280	245	218	
	2.5	3.65	730	548	438	365	313	274	243	
	3	4.00	800	600	480	400	343	300	267	
SF11015	3.5	4.32	864	648	518	432	370	324	288	NA
	4	4.62	924	693	554	462	396	347	308	
	2	4.90	980	735	588	490	420	368	327	
	2.5	5.48	1096	822	658	548	470	411	365	
SF11015	3	6.00	1200	900	720	600	514	450	400	NA
	3.5	6.48	1296	972	778	648	555	486	453	
	4	6.93	1386	1040	832	693	594	520	462	

BLISTER PACKAGING

STANDARD FLAT FAN nozzles are available in blister packaging for store displays.



Code 110°	Quantity per pack
PKSF11001	10 nozzles
PKSF110015	
PKSF11002	
PKSF110025	
PKSF11003	
PKSF11004	
PKSF11005	
PKSF11006	
PKSF11008	
PKSF11010	
PKSF11015	

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.

WIDE RANGE



The Wide Range nozzle provides the benefits of a 110° full spray angle across a wide range of pressures from 1-4 bar. At these pressures it maintains a full spray angle and therefore gives full coverage, unlike its traditional counterparts which produce a reducing spray angle and therefore reduced coverage at lowering pressures. Using this wide range nozzle ensures excellent distribution across the entire spray boom.

The wide range nozzle produces a triangular spray distribution, similar to the Standard fan. This nozzle is ideally suited to machines using automatic rate controllers since the spray angle will always be maintained as the flow rate is adjusted up and down.

FEATURES

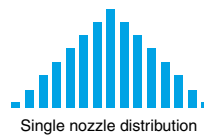
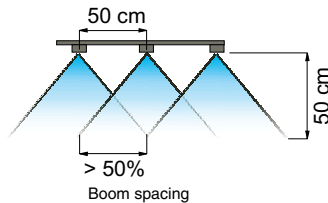
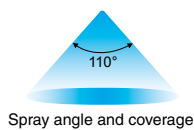
- Available in spray angle of 110°.
- Wide pressure range 1-4 bar (15-60psi).
- **Full coverage maintained over a wide pressure range.**
- Ideal for use with machines using automatic application rate controllers.
- Choice of droplet size depending on the pressure selected.
- Precision moulded with a polyacetal outer body and a ceramic insert for excellent wear.
- Colour coded in accordance with ISO10625 for quick identification of flow rate.

COVERAGE

- Being operated across a wide range of pressures will provide reduced drift at 1-1.5 bar, good overall coverage at 1.5-2 bar and enhanced deposition at pressures above.

APPLICATIONS

- The wide range nozzle is well suited to applying herbicides, insecticides, fungicides, growth regulator and liquid fertilisers.



SPRAY QUALITY CLASSIFICATION

Code	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar	4 bar
WR11001	F	F	F	VF	VF	VF	VF
WR110015	M	F	F	F	F	F	F
WR11002	M	M	F	F	F	F	F
WR 110025	M	M	M	F	F	F	F
WR11003	M	M	M	M	F	F	F
WR11004	M	M	M	M	M	F	F
WR11005	M	M	M	M	M	M	F
WR 11006	C	C	M	M	M	M	M

Very Fine (VF)	Fine (F)	Medium (M)	Coarse (C)	Very Coarse (VC)
< 119µm	119µm ÷ 216µm	217µm ÷ 353µm	354µm ÷ 464µm	> 464µm

µm= millionth millimeter (Eg.: 250µm = 0.25 mm)





Code	 bar	 l/min	l/ha (nozzle spacing: 50 cm)						
			6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
WR11001	1	0.23	46	35	28	23	20	17	15
	1.5	0.28	57	43	33	28	24	21	19
	2	0.33	66	50	40	33	28	25	22
	2.5	0.37	74	56	44	37	32	28	25
	3	0.40	80	60	48	40	34	30	27
	3.5	0.43	86	65	52	43	37	32	29
WR110015	4	0.46	92	69	55	46	39	35	31
	1	0.35	70	53	42	35	30	26	23
	1.5	0.42	84	63	50	42	36	32	28
	2	0.49	98	74	59	49	42	37	33
	2.5	0.55	110	83	66	55	47	41	37
	3	0.60	120	90	72	60	51	45	40
WR11002	3.5	0.65	130	98	78	65	56	49	43
	4	0.69	138	104	83	69	59	52	46
	1	0.46	92	69	55	46	39	35	31
	1.5	0.56	112	84	67	56	48	42	37
	2	0.65	130	98	78	65	56	49	43
	2.5	0.73	146	110	88	73	63	55	49
WR110025	3	0.80	160	120	96	80	69	60	53
	3.5	0.86	172	129	103	86	74	65	57
	4	0.92	184	138	110	92	79	69	61
	1	0.58	115	87	69	58	49	43	38
	1.5	0.71	141	106	85	71	61	53	47
	2	0.82	164	123	98	82	70	62	55
WR11003	2.5	0.91	182	137	109	91	78	68	61
	3	1.00	200	150	120	100	86	75	67
	3.5	1.08	216	162	130	108	93	81	72
	4	1.15	230	173	138	115	99	86	77
	1	0.69	138	104	83	69	59	52	46
	1.5	0.85	170	128	102	85	73	64	57
WR11004	2	0.98	196	147	118	98	84	74	65
	2.5	1.10	220	165	132	110	94	83	73
	3	1.20	240	180	144	120	103	90	80
	3.5	1.30	260	195	156	130	111	98	87
	4	1.39	278	209	167	139	119	104	93
	1	1.03	206	154	124	103	88	77	69
WR11005	1.5	1.26	252	189	151	126	108	94	84
	2	1.31	262	197	157	131	112	98	87
	2.5	1.46	292	219	175	146	125	110	97
	3	1.60	320	240	192	160	137	120	107
	3.5	1.73	346	260	208	173	148	130	115
	4	1.85	370	278	222	185	159	139	123
WR11006	1	1.14	231	173	138	115	99	86	77
	1.5	1.41	283	212	170	141	121	106	94
	2	1.63	326	245	196	163	140	122	109
	2.5	1.83	365	274	219	182	156	137	122
	3	2.00	400	300	240	200	171	150	133
	3.5	2.16	432	324	259	216	185	162	144
WR11006	4	2.31	462	346	277	231	198	173	154
	1	1.39	277	208	166	139	119	104	92
	1.5	1.70	339	255	204	170	145	127	113
	2	1.96	392	294	235	196	168	147	131
	2.5	2.20	440	330	264	220	189	165	147
	3	2.40	480	360	288	240	206	180	160
WR11006	3.5	2.60	520	390	312	260	223	195	173
	4	2.80	560	420	336	280	240	210	187

BLISTER PACKAGING

WIDE RANGE nozzles are available in blister packaging for store displays.



Code	Quantity per pack
PKWR110015	10 nozzles
PKWR11002	
PKWR110025	
PKWR11003	
PKWR11004	
PKWR11005	
PKWR11006	

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.

FAN AIR CERAMIC



These nozzles draw in air to provide large aerated droplets which can shatter upon target impact and disperse rather than bounce, as with traditional large droplets, to provide improved coverage and penetration with reduced drift.

The Fan Air Ceramic induction nozzles has proved very popular world wide for many years. The pre-orifice insert is removable to facilitate cleaning and the air holes are shrouded to reduce potential blocking in dusty applications.

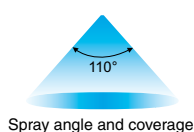
With the Fan Air Ceramic induction nozzle, the addition of a side hole draws in air to infuse the fluid stream which provides yet a further enhancement to the low drift characteristics ideal for sensitive spraying applications.

This nozzle is used for application of herbicides, fungicides, insecticides and is ideally suited to machines using automatic rate controllers since the spray angle will always be maintained as the flow rate is adjusted up and down.

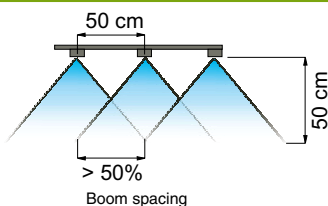
FEATURES

- Available in spray angle of 110°.
- **Full coverage maintained over a wide pressure range.**
- Two piece construction providing a removable insert to facilitate cleaning.
- All ceramic construction for chemical stability and excellent wear characteristics.
- Only 26.5 mm in length, therefore less prone to damage.
- Colour coded (in accordance with ISO10625) for quick identification of flow rate.
- International size allows direct replacement with all conventional flat fan tips.
- Precision moulded with a polyacetal outer body and a ceramic insert for excellent wear.
- Self alignment of spray when fitted in standard flat fan bayonet caps.
- Suitable for both knapsack and boom sprayers.
- Potential drift reduction of 79%-96% at 3 bar when compared with conventional nozzles.

new



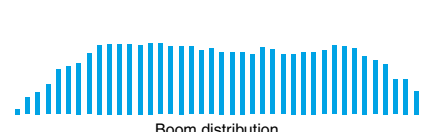
Spray angle and coverage



Boom spacing



Single nozzle distribution



Boom distribution

SPRAY QUALITY CLASSIFICATION

Code	2 bar	3 bar	4 bar	5 bar
AFC110015	VC	VC	C	C
AFC11002	VC	VC	VC	C
AFC110025	VC	VC	VC	C
AFC11003	VC	VC	VC	VC
AFC11004	VC	VC	VC	VC
AFC11005	VC	VC	VC	VC

Very Fine (VF)	Fine (F)	Medium (M)	Coarse (C)	Very Coarse (VC)
< 119µm	119µm ÷ 216µm	217µm ÷ 353µm	354µm ÷ 464µm	> 464µm

µm= millionth millimeter (Eg.: 250µm = 0.25 mm)





Code	bar	l/min	l/ha (nozzle spacing: 50 cm)							
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
AFC110015	2	0.49	147	98	74	59	49	42	37	33
	3	0.60	180	120	90	72	60	51	45	40
	4	0.69	207	138	104	83	69	59	52	46
	5	0.77	231	154	116	92	77	66	58	51
AFC11002	2	0.65	195	130	98	78	65	56	49	43
	3	0.80	240	160	120	96	80	69	60	53
	4	0.92	276	184	138	110	92	79	69	61
	5	1.03	309	206	155	124	103	88	77	69
AFC110025	2	0.82	246	164	123	98	82	70	62	55
	3	1.00	300	200	150	120	100	86	75	67
	4	1.15	345	230	173	138	115	99	86	77
	5	1.29	387	258	194	155	129	111	97	86
AFC11003	2	0.98	294	196	147	118	98	84	74	65
	3	1.20	360	240	180	144	120	103	90	80
	4	1.39	417	278	209	167	139	119	104	93
	5	1.55	465	310	233	186	155	133	116	103
AFC11004	2	1.31	393	262	197	157	131	112	98	87
	3	1.60	480	320	240	192	160	137	120	107
	4	1.85	555	370	278	222	185	159	139	123
	5	2.07	621	414	311	248	207	177	155	138
AFC11005	2	1.63	489	326	244	196	163	140	122	109
	3	2.00	600	400	300	240	200	171	150	133
	4	2.31	693	462	346	277	231	198	173	154
	5	2.58	774	516	387	310	258	221	193	172

BLISTER PACKAGING

FAN AIR CERAMIC nozzles are available in blister packaging for store displays.

BLISTER PACK
10 pcs

Code	Quantity per pack
PKAFC110015	10 nozzles
PKAFC11002	
PKAFC110025	
PKAFC11003	
PKAFC11004	
PKAFC11005	

IMPORTANT: In case of purchasing-order, please refer to the **QUANTITY** of **BLISTERS** required.

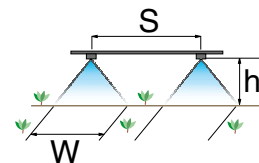
BAND APPLICATION RATE

In case of band spraying, the actual application rate in l/ha is obtained by multiplying the figures at "Overall application rate" by a specific constant. Depending on the height of the nozzle from the sole (h), the constant is expressed by the following ratio: nozzle spacing (S) divided by band-width (W).

$$\text{Band Spraying Constant} = \frac{S}{W}$$

Nozzle Height (h)	Band Width (W)	Nozzle Spacing (S)			Constant
		50 cm	75 cm	100 cm	
12 cm	20 cm	2.5	3.8	5.0	
15 cm	25 cm	2.0	3.0	4.0	
18 cm	30 cm	1.7	2.5	3.3	
21 cm	35 cm	1.5	2.1	2.9	
24 cm	40 cm	1.3	1.9	2.5	
27 cm	45 cm	1.1	1.7	2.2	

Band application rate = Overall application rate x constant





TWIN FAN LOW DRIFT

These nozzles have the same specification as the standard low drift but the total flow rate is split with 50% being sprayed 30° forward and 50% 30° backwards. Spraying 30° forward gives improved penetration, and 30° backwards gives an improved deposit on the top of the target.

Attention must be paid to the filtration on the sprayer which needs to be based on 50% of the total flow rate.

FEATURES

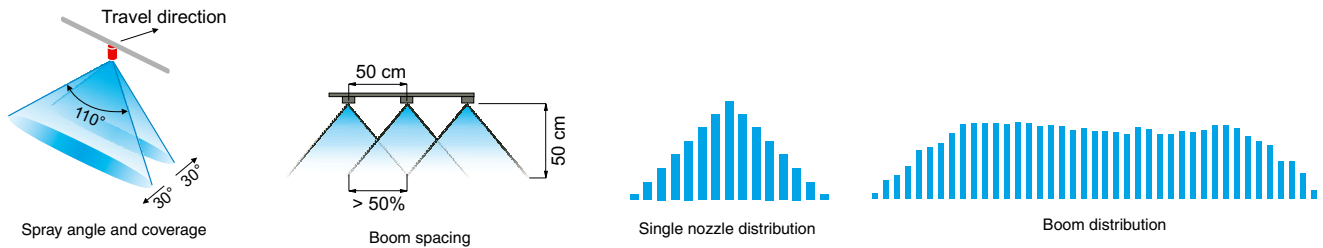
- Available in spray angle of 110°.
- Polyacetal construction for chemical stability and excellent wear characteristics.
- Twin fans provide good coverage, improved penetration and spray deposition.
- The Twin Fan Low Drift nozzle has the same flow rate as the Twin Fan Standard nozzle, but with larger droplets, in order to obtain lower drift.
- Do not require a double cap. They fit into existing caps.

APPLICATIONS

- Suitable for use on boomsprayers for application of insecticides, herbicides and for fungicide applications for potato blight, onions and cereals etc.

SPRAY DRIFT

- Spray drift comprises small, wind borne droplets of pesticide carried away from the intended target area and into the environment. Research has shown that spray drift accounts for up to 20% of pesticides being released into the environment and these pesticides being released into the environment and these pesticides are contained in droplets less than 100µm in diameter.



SPRAY QUALITY CLASSIFICATION

Code	2 bar	3 bar	4 bar	5 bar
TFLD11002	F	F	F	F
TFLD11003	F	F	F	F
TFLD11004	M	M	M	F
TFLD11005	M	M	M	M

Very Fine (VF)	Fine (F)	Medium (M)	Coarse (C)	Very Coarse (VC)
< 119µm	119µm ÷ 216µm	217µm ÷ 353µm	354µm ÷ 464µm	> 464µm

µm= millionth millimeter (Eg.: 250µm = 0.25 mm)

BLISTER PACKAGING

TWIN FAN LOW DRIFT nozzles are also available in blister packaging for store displays.

BLISTER PACK
10 pcs

Code	Quantity per pack
PKTFLD11002	10 nozzles
PKTFLD11003	
PKTFLD11004	
PKTFLD11005	

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.

Code	bar	l/min	l/ha (nozzle spacing: 50 cm)							
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
TFLD11002	2	0.65	195	130	98	78	65	56	49	43
	3	0.80	240	160	120	96	80	69	60	53
	4	0.92	276	184	138	110	92	79	69	61
	5	1.03	309	206	155	124	103	88	77	69
TFLD11003	2	0.98	294	196	147	118	98	84	74	65
	3	1.20	360	240	180	144	120	103	90	80
	4	1.39	417	278	209	167	139	119	104	93
TFLD11004	5	1.55	465	310	233	186	155	133	116	103
	2	1.31	393	262	197	157	131	112	98	87
	3	1.60	480	320	240	192	160	137	120	107
TFLD11005	4	1.85	555	370	278	222	185	159	139	123
	5	2.07	621	414	311	248	207	177	155	138
	2	1.63	489	326	244	196	163	140	122	109
TFLD11005	3	2.00	600	400	300	240	200	171	150	133
	4	2.31	693	462	346	277	231	198	173	154
	5	2.58	774	516	387	310	258	221	193	172





TWIN FAN AIR

These nozzles have the same specification as the standard fan air, with an improved droplet spectrum.

The total flow rate is split with 50% being sprayed 30° forward and 50% 30° backward. Spraying 30° forward gives improved penetration and 30° backward gives an improved deposit on the top of the target.

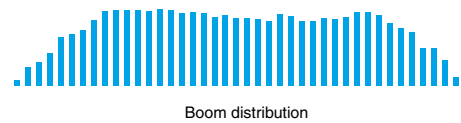
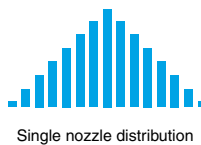
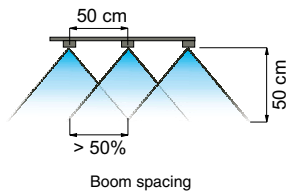
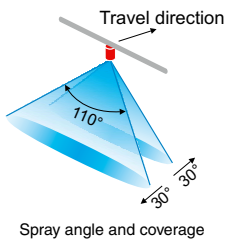
Reduced drift capabilities equal to standard fan air.

FEATURES

- Available in spray angle of 110°.
- Polyacetal construction for chemical stability and excellent wear characteristics.
- Three piece construction provides a removable pre-orifice to facilitate cleaning.
- Twin fans provide good coverage, improved penetration and spray deposition. Can be used where very low drift is required.
- The Twin Fan Air nozzle has the same flow rate as the Twin Fan Standard nozzle, but with larger droplets blend with air, exploding at contact with cultivation in order to obtain low drift and better coverage.
- Do not require a double cap. They fit into existing caps.

APPLICATIONS

- Suitable for use on boomsprayers for application of insecticides, herbicides and for fungicide applications for potato blight, onions and cereals etc.



SPRAY QUALITY CLASSIFICATION

Code	2 bar	3 bar	4 bar	5 bar
TFA11002	VC	C	C	C
TFA11003	VC	VC	C	C
TFA11004	VC	VC	VC	C
TFA11005	VC	VC	VC	C

Very Fine (VF)	Fine (F)	Medium (M)	Coarse (C)	Very Coarse (VC)
< 119µm	119µm ÷ 216µm	217µm ÷ 353µm	354µm ÷ 464µm	> 464µm

µm = millionth millimeter (Eg.: 250µm = 0.25 mm)

BLISTER PACKAGING

TWIN FAN STANDARD nozzles are also available in blister packaging for store displays.

BLISTER PACK
10 pcs

Code	Quantity per pack
PKTFA11002	10 nozzles
PKTFA11003	
PKTFA11004	
PKTFA11005	

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.

Code	bar	l/min	l/ha (nozzle spacing: 50 cm)							
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
TFA11002	2	0.65	195	130	98	78	65	56	49	43
	3	0.80	240	160	120	96	80	69	60	53
	4	0.92	276	184	138	110	92	79	69	61
	5	1.03	309	206	155	124	103	88	77	69
TFA11003	2	0.98	294	196	147	118	98	84	74	65
	3	1.20	360	240	180	144	120	103	90	80
	4	1.39	417	278	209	167	139	119	104	93
TFA11004	5	1.55	465	310	233	186	155	133	116	103
	2	1.31	393	262	197	157	131	112	98	87
	3	1.60	480	320	240	192	160	137	120	107
TFA11005	4	1.85	555	370	278	222	185	159	139	123
	5	2.07	621	414	311	248	207	177	155	138
	2	1.63	489	326	244	196	163	140	122	109
	3	2.00	600	400	300	240	200	171	150	133
	4	2.31	693	462	346	277	231	198	173	154
	5	2.58	774	516	387	310	258	221	193	172





DEFLECTOR 140

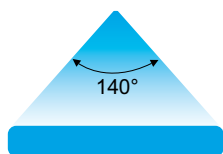
These nozzles have the same features as the deflector, but have a wider spray angle therefore covering a greater area from an equivalent height.

FEATURES

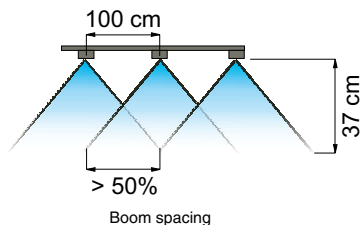
- Wide spray angle of 140°.
- Gives a narrow rectangular spray pattern.
- Reduced potential clogging due to large round orifice.
- Produces coarse droplets with reduced potential drift when operated at 1 ÷ 2 bar.
- Incorporates screwdriver slot at the front to enable nozzle to be aligned in standard caps.
- Moulded in high performance colour coded (non ISO) polyacetal providing good wear and chemical resistance.

APPLICATIONS

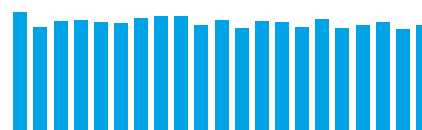
- Well suited to broadcast spraying with small boom sprayers fitted to all-terrain vehicles. The wide angle allows the nozzles to be spaced at 1m intervals effectively reducing the number of nozzles required.
- This wide angle Deflector is also suitable for use with knapsack sprayers for single nozzle applications where the wide swath will improve productivity.
- The Deflector 140 is very good for pre-emergent and soil incorporated herbicides and good for post-emergent herbicides.
- Good for systemic formulations of insecticides and fungicides.



Spray coverage



Boom spacing



Nozzle distribution

Code	bar	l/min	l/ha (nozzle spacing: 100 cm)					
			6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h
DEF140015	1	0.70	70	53	72	35	30	26
	1.5	0.87	87	65	52	44	38	33
	2	1.00	100	75	60	50	43	38
	3	1.22	122	91	73	61	53	46
DEF14002	1	0.88	88	66	53	44	38	33
	1.5	1.08	108	81	65	54	47	41
	2	1.25	125	94	75	63	65	47
	3	1.53	153	115	92	76	66	58
DEF140025	1	1.13	113	85	68	56	49	43
	1.5	1.39	139	104	83	70	60	52
	2	1.60	160	120	96	80	69	60
	3	1.96	196	147	118	98	84	74
DEF14003	1	1.41	141	106	85	71	61	53
	1.5	1.73	173	130	104	86	74	65
	2	2.00	200	150	120	100	86	75
	3	2.45	245	184	147	122	105	92
DEF14004	1	1.77	177	133	106	88	76	67
	1.5	2.16	216	162	130	108	93	81
	2	2.50	250	187	150	125	107	94
	3	3.06	306	229	184	154	131	115
DEF14005	1	2.22	222	166	133	111	95	84
	1.5	2.72	272	204	163	136	117	102
	2	3.15	315	236	189	157	135	118
	3	3.86	386	289	232	193	166	145
DEF140075	1	3.54	354	265	212	177	152	133
	1.5	4.33	433	325	260	217	186	163
	2	5.00	500	375	300	250	215	188
	3	6.12	612	459	367	306	263	230



BLISTER PACKAGING

DEFLECTOR 140 nozzles are available in blister packaging for store displays.



Code	Quantity per pack
PKDEF140015	10 nozzles
PKDEF14002	
PKDEF140025	
PKDEF14003	
PKDEF14004	
PKDEF14005	
PKDEF140075	

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.



HOLLOWCONE

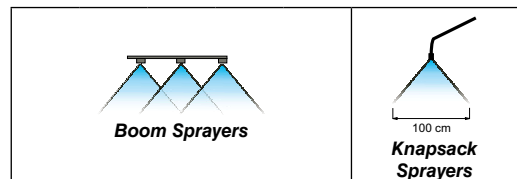
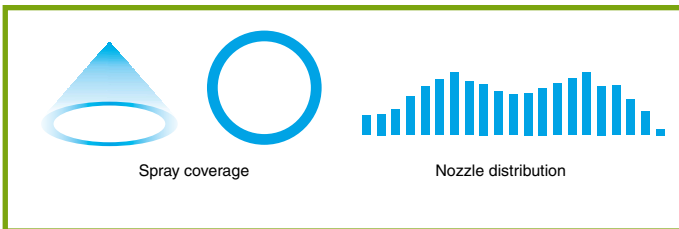
The Hollowcone nozzle consists of an outer body and a removable swirl plate which gives a hollowcone spray pattern.

FEATURES

- Precision moulded in polyacetal, a highly stable polymeric material with outstanding wear characteristics.
- Colour coded (in accordance with ISO10625) for quick identification of flow rate.
- The captive swirl plate remains intact when the nozzle is removed from the boom.
- The swirl plate is easily removed for cleaning

APPLICATIONS

- Can be used with boomsprayers.
- Widely used with knapsack sprayers. Hollowcone nozzles can be used to spray from above or below the foliage or for overall applications.
- The fine droplets produced at 3 bar pressure make these nozzles well suited for foliar application of insecticides and fungicides.
- Chose the proper height for met overlapping the patterns.



Code	Angle	cm	bar	l/min	l/ha					l/ha @ 60 metres/min (3.6 km/h)
					6 km/h	8 km/h	10 km/h	12 km/h	16 km/h	
HC01	80°	30	3	0.40	80	60	48	40	30	67
			4	0.46	92	69	55	46	35	---
			5	0.52	104	78	62	52	39	---
			6	0.57	114	86	68	57	43	---
HC015	120°	14.5	3	0.60	120	90	72	60	45	100
			4	0.69	138	104	83	69	52	---
			5	0.77	154	116	92	77	58	---
			6	0.85	170	128	102	85	64	---
HC02	85°	28	3	0.80	160	120	96	80	60	133
			4	0.92	184	138	110	92	69	---
			5	1.03	206	155	124	103	77	---
			6	1.13	226	170	136	113	85	---
HC035	85°	28	3	1.40	280	210	168	140	102	233
			4	1.62	324	243	194	162	122	---
			5	1.81	362	272	217	181	136	---
			6	1.98	396	297	238	198	149	---
HC04	90°	25	3	1.60	320	240	192	160	120	267
			4	1.85	370	278	222	185	139	---
			5	2.07	414	311	248	207	155	---
			6	2.26	452	339	271	226	170	---
HC05	100°	21	3	2.00	400	300	240	200	150	333
			4	2.31	462	347	277	231	173	---
			5	2.58	516	387	310	258	194	---
			6	2.83	566	425	340	283	212	---
HC06	100°	21	3	2.40	480	360	288	240	180	400
			4	2.80	560	420	336	280	210	---
			5	3.10	620	465	372	310	233	---
			6	3.40	680	510	408	340	255	---

BLISTER PACKAGING

HOLLOW CONE nozzles are available in blister packaging for store displays.



Code	Quantity per pack
PKHC01	10 nozzles
PKHC015	
PKHC02	
PKHC035	
PKHC04	
PKHC05	
PKHC06	

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.



TILT 30

This nozzle has been specially designed to provide droplets with an oblique angle of attack for slender vertical targets such as black grass etc.

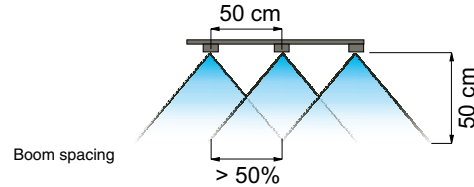
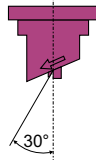
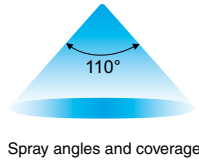
The nozzle inclines the 110° spray pattern 30° to the vertical. An arrow on the nozzle indicates the direction of spray.

FEATURES

- Available in spray angle of 110°.
- Manufactured from high performance polyacetal with excellent wear characteristics and chemical stability.

APPLICATIONS

- Because of its oblique angle of attack the Tilt 30 is suitable for slender vertical targets such as grasses. The Tilt 30 can be used for the application of insecticides, fungicides and herbicides.



SPRAY QUALITY CLASSIFICATION

Code	1 bar	2 bar	3 bar
TLT110030	M	M	F

Very Fine (VF)	Fine (F)	Medium (M)	Coarse (C)	Very Coarse (VC)
< 119µm	119µm ÷ 216µm	217µm ÷ 353µm	354µm ÷ 464µm	> 464µm

µm= millionth millimeter (Eg.: 250µm = 0.25 mm)

BLISTER PACKAGING

TWIN FAN STANDARD nozzles are available in blister packaging for store displays.



Code	Quantity per pack
PKTLT110030	10 nozzles

IMPORTANT: In case of purchasing-order, please refer to the QUANTITY of BLISTERS required.



Code	bar	l/min	l/ha (nozzle spacing: 50 cm)						
			6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
TLT110030	1.0	0.77	154	116	92	77	66	58	51
	2.0	1.06	212	159	127	106	91	80	71
	3.0	1.32	264	198	158	132	113	99	88





PENTASTREAM

Pentastream is the new ISJ nozzle specifically designed for **liquid fertilizer** spraying. The special layout of the holes and different flow rate of each of them allow for optimum fertilizer spray range. Pentastream spraying range is always even and accurate to ensure perfect ground impact and avoid any chemical damage to crops, regardless of bar height, as far as recommended pressure ranges are complied with.

FEATURES

- Optimised output angle ensuring fertilizer even spray range.
- Pressure range 1÷2.5 bar (15÷37 PSI).
- Constant spray range upon varying pressure values.
- Perfect ground impact that avoids crop damage as far as recommended pressure ranges are complied with.
- Precision moulded with a polyacetal body for excellent wear.
- Colour coded in accordance with ISO10625 for quick identification of flow rate.

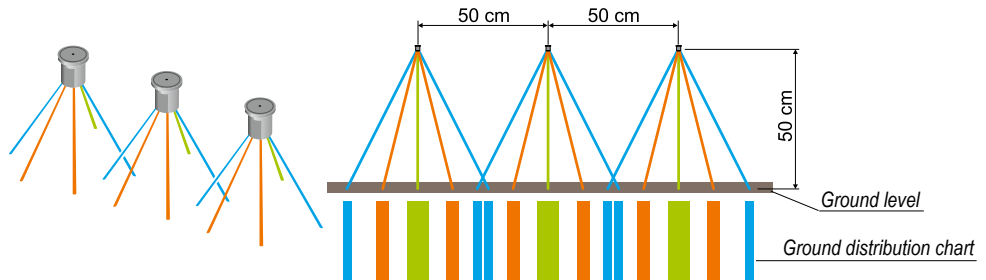
APPLICATIONS

- PENTASTREAM nozzle is specifically designed for use with liquid ground fertilizers for spraying bar applications.

new

COVERAGE

The special layout of the holes and different flow rate of each of them allow for optimum fertilizer spray range. Use of PENTASTREAM at the recommended pressures and varying bar height from 35 to 100 cm, ensures even spray range, free from oversprayed or non-sprayed areas and prevents product from reaching the crops to avoid any chemical damage.



Code	bar	l/min	l/ha (nozzle spacing: 50 cm)						
			6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
PSP015	1	0.35	69	52	42	35	30	26	23
	1.5	0.42	85	64	51	42	36	32	28
	2	0.49	98	73	59	49	42	37	33
PSP02	2.5	0.55	110	82	66	55	47	41	37
	1	0.46	92	69	55	46	40	35	31
	1.5	0.57	113	85	68	57	48	42	38
PSP03	2	0.65	131	98	78	65	56	49	44
	2.5	0.73	146	110	88	73	63	55	49
	1	0.69	139	104	83	69	59	52	46
PSP04	1.5	0.85	170	127	102	85	73	64	57
	2	0.98	196	147	118	98	84	73	65
	2.5	1.10	219	164	131	110	94	82	73
PSP05	1	0.92	185	139	111	92	79	69	62
	1.5	1.13	226	170	136	113	97	85	75
	2	1.31	261	196	157	131	112	98	87
PSP06	2.5	1.46	292	219	175	146	125	110	97
	1	1.15	231	173	139	115	99	87	77
	1.5	1.41	283	212	170	141	121	106	94
PSP06	2	1.63	327	245	196	163	140	122	109
	2.5	1.83	365	274	219	183	156	137	122
	1	1.39	277	208	166	139	119	104	92
PSP06	1.5	1.70	339	255	204	170	145	127	113
	2	1.96	392	294	235	196	168	147	131
	2.5	2.19	438	329	263	219	188	164	146



BLISTER PACKAGING

PENTASTREAM nozzles are available in blister packaging for store displays.



Code	Quantity per pack
PKPSP015	10 nozzles
PKPSP02	
PKPSP03	
PKPSP04	
PKPSP05	
PKPSP06	

IMPORTANT: In case of purchasing-order, please refer to the **QUANTITY** of **BLISTERS** required.

BLISTER PACKAGING

INTERNATIONAL SPRAY-JETS nozzles are also available in blister packaging for store displays.



NOZZLE		Quantity per pack	Code Prefix
Type	Series		
Fan air ceramic	AFC	10	PK
Deflector 140	DEF140	10	PK
Hollowcone	HC	10	PK
Hollowcone ceramic	HCC	10	PK
Low drift*	LD	10	PK
Low drift ceramic	LDC	10	PK
Pentastream	PSP	10	PK
Standard flat fan	SF	10	PK
Standard fan ceramic	SFC	10	PK
Standard fan air	SFA	10	PK
Twin fan standard	TFS	10	PK
Twin fan air	TFA	10	PK
Twin fan low drift	TFLD	10	PK
Tilt 30	TLT	10	PK
Wide range	WR	10	PK
Wide range ceramic	WRC	10	PK

HOW TO ORDER BLISTERS

Select the "Code prefix" related to the nozzle required and add it to the nozzle part-number.

...for instance:

for ordering the Standard Flat Fan 110° Green in blisters, the correct part-number is:

PKSF110015















(nozzle part-number SF110015 + prefix PK)

IMPORTANT: In case of purchasing-order, please refer to the **QUANTITY** of **BLISTERS** required.









CAPS

Standard bayonet caps

Type	Cap with gasket		Spare gasket		To be used with the following nozzles
	COD.		COD.		
	402 900 xx	4	402 200.040	25	
	402 901 xx	4	402 200.040	25	
	402 904 xx	4	402 200.040	25	
	402 905 xx	4	402 200.040 + 402 105.030	25 25	
	402 908 xx	4	402 200.040	25	
	402 91703	4	402 200.040	25	

“Hardi” caps - not in stock in Australia

	CPH FF01	25	402 200.040	25	
	CPH TF01	25	402 200.040	25	
	CPH HC01	25	402 200.040	25	

HOW TO ORDER

To order a green cap with code 402 900 indicate 402 900 05

Colour	CODE (xx)	Colour	CODE (xx)	Colour	CODE (xx)
Black	01	Yellow	06*	Light blue	11
White	02	Brown	07*	Dark blue	12
Red	03*	Orange	08	Lilac	13
Blue	04*	Light green	09		
Green	05*	Grey	10		

*: Standard colours. Other colours on request.

FILTERS

Ball check filter



CODE	Type
424 210	50 mesh
424 211	100 mesh



Cylindrical filter



CODE	Type
424 310	50 mesh
424 311	100 mesh



CROSS REFERENCE CHART

ISJ INTERNATIONAL SPRAY-JETS Ltd ATAC GROUP	A.L. LURMARK	LURMARK	Tejet	LECHLER	agrotop
Fan Air Ceramic AFC	CVI		AI	ID-C	
Deflector 140 DEF	APM	DT	TKT-VP	FT	DT
Evenfan EF		E	TPVS	ES	
Hollowcone HC	AMTP	DC+CR	DVP+DC		DC+CR
Hollowcone Ceramic HCC	ATR	HGX	TXWK	TR	
Low Drift LD		LD	DGVP	AD	
Low Drift Ceramic LDC	ADI		DGVS	AD-C	
Pentastream PSP	ESI - EXA		SJ3 - SJ7	FD FL	
Standard Fan SF		FT	TPVP	ST	SPRAYMAX
Standard Fan Air SFA	AVI	DB	AI	IDK	AIRMIX
Standard Fan Ceramic SFC	API		TPWK	ST-C	TCC
Twin Fan Air TFA	AVI TWIN	TWC+DB(x2)		TWC-IDK(x2)	TDDF
Twin Fan Low Drift TFLD		TWC+LD(x2)		TWC-AD(x2)	
Twin Fan Standard TFS		TWC+FT(x2)	TJVS	DF	
Tilt 30 TLT					
Wide Range WR		VP	XRVP	LU	
Wide Range Ceramic WRC	AXI	TR	XRWK	LU-C	

Plastic
 Ceramic
 Stainless Steel

The chart is simply indicative and not binding. International Spray-Jets can't be held liable for possible incorrectness. ALBUZ, LURMARK, TEJET, LECHLER and AGROTOP are registered trade-marks of the respective firms.



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