



JASUN
FILTRATION PLC

MultiCarb Activated Carbon Discarb Units

GENERAL DESCRIPTION

These filters are manufactured for ease of installation and incorporation into ducted air systems. They can be used on both supply for purifying incoming air, and can be used on the extract to remove toxic gasses and odours generated within a process.

Construction

These modules are manufactured by mounting a series on carbon panel filters with a sealed case. The airflow is epitomized by presenting the filtering surfaces in a "V" formation.

Each carbon panel is sealed into the filter case so as to ensure no air can bypass the carbon granules.

The panels are manufactured using long established bonding techniques which hold the activated carbon granules in a rigid biscuit. The biscuit is encapsulated in a carbon impregnated cloth which prevents any leakage of granules or powder.

The unique bonding method used by Jasun Filtration ensures that, unlike our competitors filters, that the panels will remain intact and rigid even if wet.

Stock Grades of Carbon

208 - Good general Carbon grade suitable for many applications

209 - Copper Coated Carbon for use in Museums and archives

KI - For enhanced garlic odour removal

Typical Applications include:

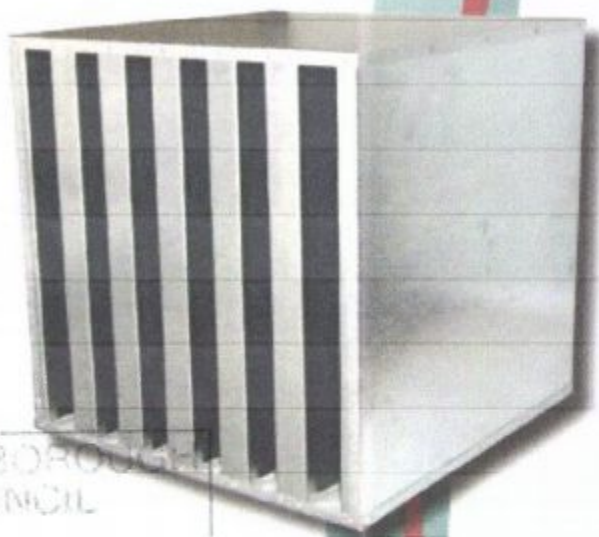
- Elimination of Cooking Odours
- Removal of Kerosene Exhaust Fumes
- General Odour Removal
- Smoke Removal
- Neutralisation of Ammonia and its

Derivatives

- Removal of Formaldehyde
- Removal of Airborne Pollutants and

Contaminants

- Removal of Acid Gases (H_2S , SO_2 , NOX , HCl)



ENVIRONMENT



EMS 81914
BS EN ISO 14001:2004

QUALITY



FM 29257
BS EN ISO 9001:2000

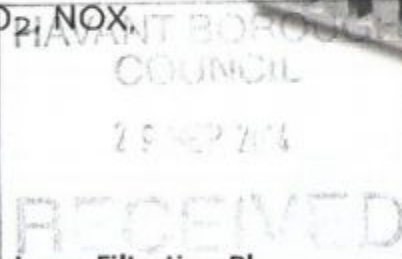
Jasun Filtration Plc
Riverside House, Parrett Way
Bridgwater, Somerset.
TA6 5LB
United Kingdom

Tel.: +44 (0) 1278 452277

Fax: +44 (0) 1278 450873

Info@jfilters.com

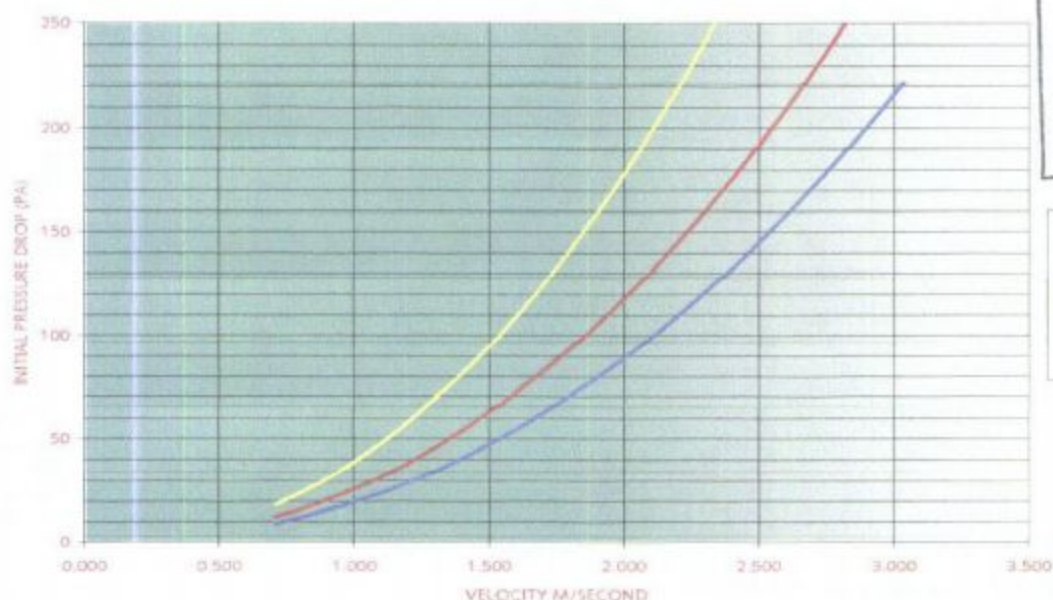
Http://www.jfilters.com



MultiCarb Cells STANDARD SIZES

No.	Nominal Size (Inches)	Height (mm)	Width (mm)	Depth (mm)	Weight of Carbon (Kg)	Cell Weight	Capacity @ 0.1 Second Dwell Time
DC-CF1-7C	24 x 24 x 8	594	594	197	10	22	800
DC-CF1-HALF-7C	24 x 12 x 8	594	291	197	5	11	400
DC242412-8-7C	24 x 24 x 12	594	594	292	13	24	990
DC121212-7C	12 x 12 x 12	297	297	297	6	12	450
DC181812-7C	18 x 18 x 12	445	445	297	13	25	990
DC241212-7C	24 x 12 x 12	594	297	297	13	25	990
DC242412-7C	24 x 24 x 12	594	594	297	25	36	1900
DC-CF2-7C	24 x 24 x 16	594	594	397	18	34	1370
DC-CF2-HALF-7C	24 x 12 x 16	594	291	397	9	18	685
DC-WA15-208	24 x 6 x 18	144	600	440	7	13	533
DC121218-7C	12 x 12 x 18	292	292	451	10	15	761
DC181818-7C	18 x 18 x 18	445	445	451	19	26	1445
DC241218-7C	24 x 12 x 18	594	297	451	18	26	1369
DC242418-7C	24 x 24 x 18	594	594	451	36	52	2740
DC121224-7C	12 x 12 x 24	292	292	597	13	19	990
DC181824-7C	18 x 18 x 24	445	445	597	25	36	1900
DC241224-7C	24 x 12 x 24	594	297	597	25	36	1900
DC242424-7C	24 x 24 x 24	594	594	597	50	61	3800

LINEAR VELOCITY M/SECOND VS PRESSURE DROP
MULTICARB ACTIVATED CARBON CELLS



HAVANT BOROUGH COUNCIL
29 SEP 2006
RECEIVED

CONTRAROTATING CASED AXIAL FANS

TCBBx2 / TCBTx2 Series



Range of cylindrical cased axial fans fitted with aluminium impellers and manufactured from high grade rolled galvanised steel and protected against corrosion by cataphoresis primer and black polyester paint finish.

Fitted with 2 contrarotating complementary impellers manufactured from die-cast aluminium. All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access. Available with single or three phase 4 poles motors.

Motors

All the motors are IP65, Class F insulation (1), equipped with thermal protection.

Single phase motors are variable voltage (for TCBBx2/4-630, only if the ambient temperature is up to 40 °C).

Three phase motors suitable for inverter control. Electrical supplies:

Single phase 230V-50Hz. (Capacitor located inside the wiring terminal box).

Three phase 400V-50Hz

(1) Working temperatures from -40°C up to 70°C.



APPLICATIONS



Warehouses



Workshops



Commercial premises



Naval industry

Contra rotating: High pressure



Contrarotating system with two complementary impellers allowing the duplication of the pressure with the same air volume

Corrosion resistance



Rolled steel casings and motor support protected by cataphoresis primer and black polyester paint finish. Stainless steel screws

Terminal box



Wiring terminal box with cable gland PG-11

Impeller dynamically balanced



Impellers are dynamically balanced, according to ISO 1940 standard, giving vibration free operation



Technical characteristics

Before installation check that the product electrical characteristics (listed on the data plate label: Voltage, power, frequency etc.) match those of the intended electrical supply.

Model	Speed (r.p.m.)	Maximum absorbed power (kW)	Maximum absorbed current (A)	Sound pressure level (dB(A))	Maximum air volume (m³/h)	Weight (kg)	Speed controller*
TCBBx2/4-450	1370	1,24	5,40	74	6900	42	RMB-8
TCBBx2/4-500	1300	1,70	7,30	76	9400	50	RMB-8
TCBBx2/4-560	1340	3,25	15,50	78	14300	66	-
TCBBx2/4-630	1280	3,90	19,00	79	18200	80	-
TCBTx2/4-450	1400	1,25	3,40	74	6900	42	RMT-5
TCBTx2/4-500	1340	1,75	3,60	76	9400	50	RMT-5
TCBTx2/4-560	1360	3,12	5,80	78	14300	66	VFTM TRI 4
TCBTx2/4-630	1370	4,20	8,00	79	18200	80	VFTM TRI 5,5

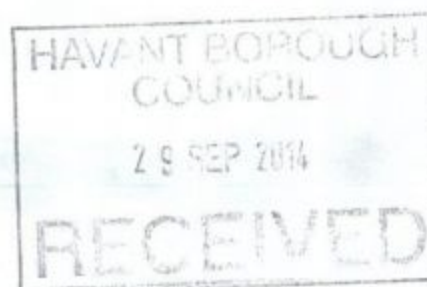
* Three phase speed controllers (RMT) or inverter control (VFTM) are suitable for 400V.

Acoustic characteristics

The sound levels -NPS- shown in the technical characteristic chart, correspond to the value of sound pressure dB(A), measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1.5 meters.

The following table shows the sound power level spectrums in dB(A) measured with the fan ducted, at both inlet and discharge sides.

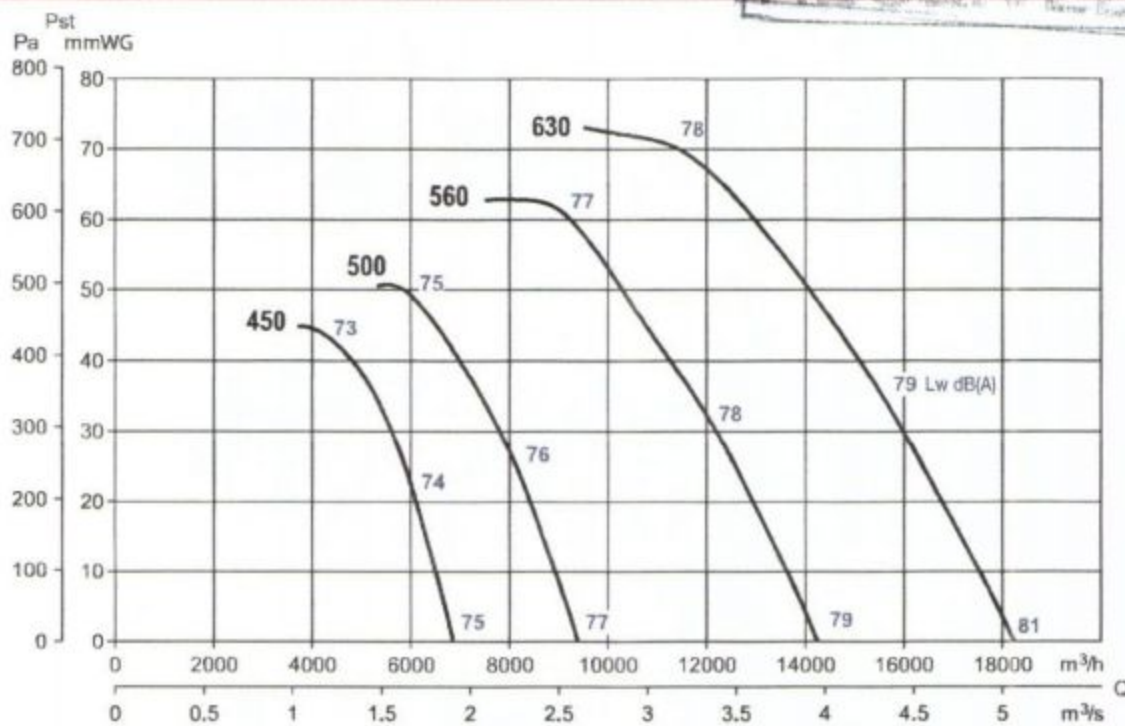
Model	Air volume m³/h	63	125	250	500	1000	2000	4000	8000	Global
450 Inlet	6600	46	73	85	82	85	79	72	64	90
	5850	46	73	84	81	83	79	71	64	88
	4300	58	70	80	80	83	79	71	64	87
450 Outlet	6600	63	75	86	85	87	82	74	67	92
	5850	53	73	85	84	87	81	74	67	91
	4300	58	70	82	83	86	82	74	67	90
500 Inlet	9000	48	78	87	85	87	81	74	67	92
	7500	52	76	85	85	85	80	73	65	90
	6000	60	73	83	82	85	80	73	66	89
500 Outlet	9000	65	76	87	88	90	84	77	70	94
	7500	62	75	86	87	88	83	76	69	92
	6000	59	72	86	85	88	83	76	69	92
560 Inlet	13720	50	85	87	88	91	85	78	73	95
	10800	57	79	83	86	89	84	78	72	93
	9000	63	79	81	86	89	84	78	72	92
560 Outlet	13720	74	86	85	91	94	88	81	75	97
	10800	70	82	84	88	92	87	81	74	95
	9000	74	81	85	89	92	87	81	74	95
630 Inlet	17500	51	85	91	89	93	87	80	74	97
	15600	55	85	85	88	91	86	80	73	95
	12000	64	80	84	88	90	86	80	73	94
630 Outlet	17500	73	87	88	93	95	89	83	77	99
	15600	71	87	86	91	94	89	83	76	98
	12000	67	84	86	90	94	89	84	76	97



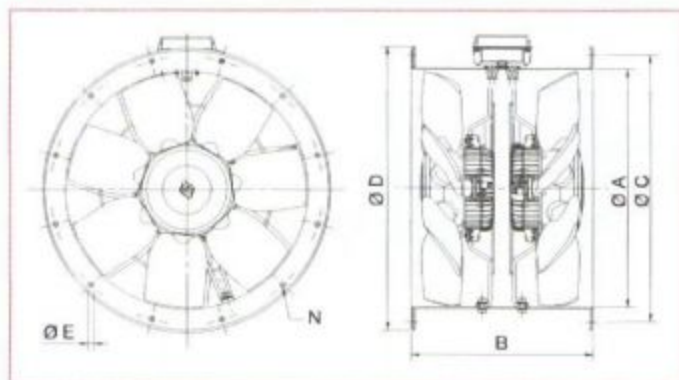


Performance curves

- Q = Air volume in, m³/hr and m³/s.
- Pst = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

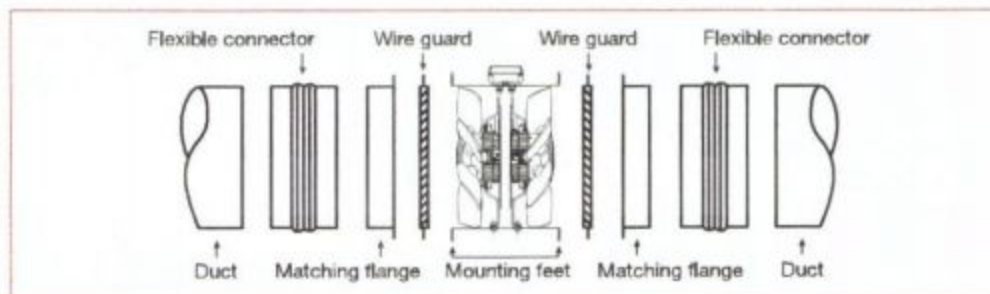


Dimensions (mm)



Model	Ø A	B	Ø C	Ø D	Ø E	Number of holes N
450	537	375	500	450	12	8
500	595	375	560	500	12	12
560	655	520	620	560	12	12
630	725	520	690	630	12	12

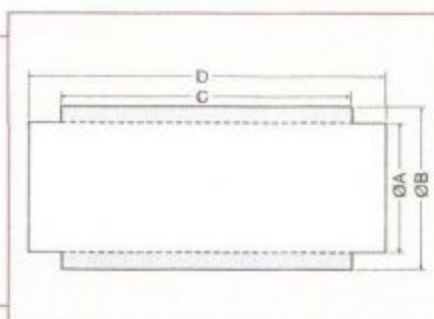
Mounting accessories



SOUND ATTENUATORS

SIL

Circular sound attenuators

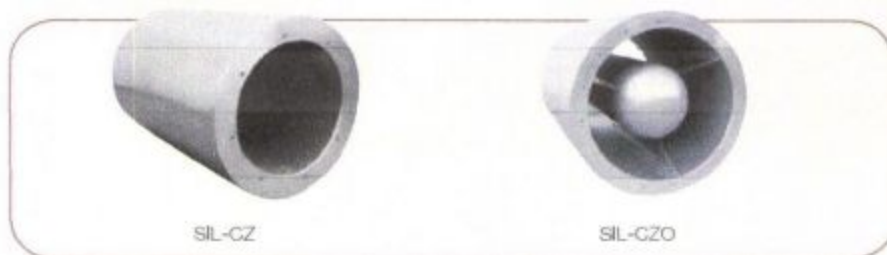


Sound attenuator to reduce noise transmission to ducting system.

Model	ØA (mm)	ØB (mm)	C (mm)	D (mm)	Attenuation in dB							
					63	125	250	500	1000	2000	4000	8000
SIL 125	125	250	600	700	1	3	9	20	28	35	28	13
SIL 160	160	250	600	700	1	3	7	17	23	29	20	9
SIL 200	200	315	600	700	1	3	7	14	20	26	15	7
SIL 250	250	355	600	700	0	2	7	12	18	23	10	5
SIL 315	315	400	600	700	0	2	7	10	15	20	7	4
SIL 355	355	450	700	860	3,7	4,1	6,7	13,2	14,3	3,4	8,1	7
SIL 400	400	500	700	860	1,8	3,1	4	9,5	13,7	5,6	0,4	5,9
SIL 450	450	560	900	1050	2	6	8	14	16	13	13	4
SIL 500	500	630	900	1050	2,2	2,8	4,6	10,1	7,7	5,1	1,8	1,6
SIL 560	560	630	900	1050	2	4	7	12	12	12	10	2
SIL 630	630	710	900	1100	1	7	7	12	12	12	10	1

SIL-CZ / SIL-CZO

Circular sound attenuators

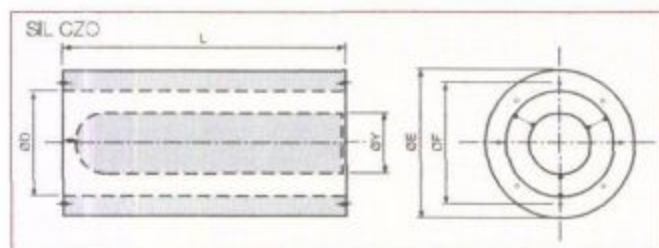
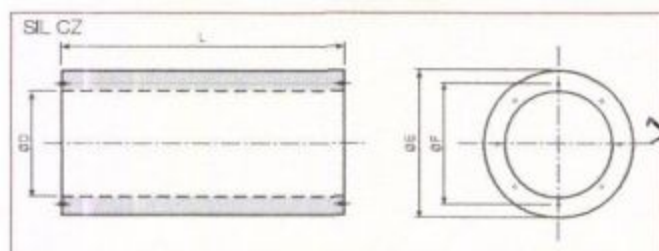


SIL CZ

Z200 galvanised sheet metal silencers, 0,8 cm. Thick and assembly flange with bolts inserted. Rockwool sound absorbent material, 70 kg/m density, with a surface protected against friction of particles, and class M0 fire resistant.

SIL CZO

SIL CZ silencers made with an internal bulb to increase silencer attenuation. Possibility of manufacturing in stainless steel, by request.



Ø nominal (mm)	ØD (mm)	ØE (mm)	ØF (mm)	Ø holes N° holes	Ø insert	ØY (mm)	L		
							ØDx1	ØDx1,5	ØDx2
400	400	540	450	8	10 MA	200	400	600	800
450	450	610	500	8	10 MA	250	450	675	900
500	500	660	560	12	10 MA	250	500	750	1000
560	560	720	620	12	10 MA	300	560	840	1120
630	630	790	690	12	10 MA	300	630	945	1260
710	710	870	770	16	10 MA	380	710	1065	1420
800	800	1000	860	16	10 MA	380	800	1200	1600
900	900	1100	970	16	12 MA	380	900	1350	1800
1000	1000	1200	1070	16	12 MA	650	1000	1500	2000
1250	1250	1450	1320	20	12 MA	650	1250	1875	2500

SOUND ATTENUATORS



Sound attenuators SIL-CZ and SIL-CZO
Pressure drops

SIL-CZ	Air speed 5 m/s		Air speed 10 m/s		Air speed 15 m/s	
	Nominal diameter	Airflow (m³/h)	Pressure drop (Pa)	Airflow (m³/h)	Pressure drop (Pa)	Airflow (m³/h)
400	1600	5	3500	26	5000	61
450	1800	5	4100	27	6000	66
500	2300	4,5	5100	27	7400	55
560	3200	4	7200	21	9200	38
630	3900	3,5	8500	17	11000	28
710	5200	3	11000	12	15000	22
800	6000	3	12500	11	17000	22
900	8000	3	16000	11	22000	28
1000	9800	3,5	18000	12,5	26000	31
1250	15000	4	27500	16	41000	39

SIL-CZO	Air speed 5 m/s		Air speed 10 m/s		Air speed 15 m/s	
	Nominal diameter	Airflow (m³/h)	Pressure drop (Pa)	Airflow (m³/h)	Pressure drop (Pa)	Airflow (m³/h)
400	1600	9	3500	41	5000	88
450	1800	9	4100	42	6000	94
500	2300	8	5100	42	7400	83
560	3200	6	7200	33	9200	55
630	3900	5	8500	27	11000	44
710	5200	4,5	11000	19	15000	37
800	6000	4,5	12500	18	17000	37
900	8000	4,5	16000	18	22000	44
1000	9800	5	18000	19	26000	47
1250	15000	6	27500	24	41000	51

Attenuation in dB

		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
SCZ 400	10	0	4	10	13	8	8	5
	15	1	5	14	19	12	10	8
	20	2	7	18	24	15	12	9
SCZ 450	10	1	4	12	12	9	6	6
	15	1	6	17	17	13	9	8
	20	1	7	21	21	15	10	8
SCZ 500	10	0	4	13	11	9	6	5
	15	1	6	18	17	12	9	7
	20	2	8	23	21	14	11	8
SCZ 560	10	0	4	14	11	8	5	4
	15	2	7	20	15	11	8	5
	20	1	9	24	19	14	10	7
SCZ 630	10	1	5	14	10	9	5	5
	15	2	7	20	14	12	8	6
	20	2	9	25	17	14	10	7
SCZ 710	10	1	5	12	9	7	5	5
	15	2	7	18	11	9	6	7
	20	4	9	24	14	11	8	8
SCZ 800	10	3	7	9	8	6	5	4
	15	5	10	13	12	9	7	7
	20	6	13	22	14	10	9	7
SCZ 900	10	3	7	13	8	6	5	4
	15	5	11	16	11	7	7	5
	20	6	14	23	13	9	7	6
SCZ 1000	10	3	8	12	8	4	4	4
	15	5	12	17	10	6	6	5
	20	6	16	23	12	7	7	6
SCZ 1250	10	3	9	13	7	4	4	3
	15	6	12	17	8	5	5	4
	20	8	17	22	10	6	6	5

		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
SCZO 400	10	1	4	11	20	18	14	11
	15	2	6	15	31	27	19	14
	20	2	9	20	37	35	23	16
SCZO 450	10	1	6	14	21	19	13	9
	15	2	7	19	31	28	18	12
	20	3	10	23	39	36	21	15
SCZO 500	10	2	5	13	20	18	11	8
	15	3	7	19	29	24	14	10
	20	3	10	24	38	32	18	12
SCZO 560	10	1	6	15	21	17	11	8
	15	3	9	22	32	27	15	11
	20	2	12	27	41	35	18	12
SCZO 630	10	1	6	15	19	16	10	8
	15	2	9	22	29	23	14	10
	20	3	11	27	37	29	15	12
SCZO 710	10	2	7	15	20	18	12	10
	15	3	11	22	31	25	13	11
	20	5	14	29	41	32	18	15
SCZO 800	10	3	9	12	17	15	9	8
	15	6	13	18	26	22	12	11
	20	6	16	29	35	26	15	12
SCZO 900	10	4	8	15	16	11	8	7
	15	5	12	20	24	16	10	9
	20	7	17	30	34	20	12	11
SCZO 1000	10	8	14	20	24	21	14	10
	15	10	22	30	37	29	16	12
	20	13	28	39	47	38	19	13
SCZO 1250	10	7	12	18	19	10	6	6
	15	10	18	26	29	14	9	7
	20	13	25	35	37	17	11	9

