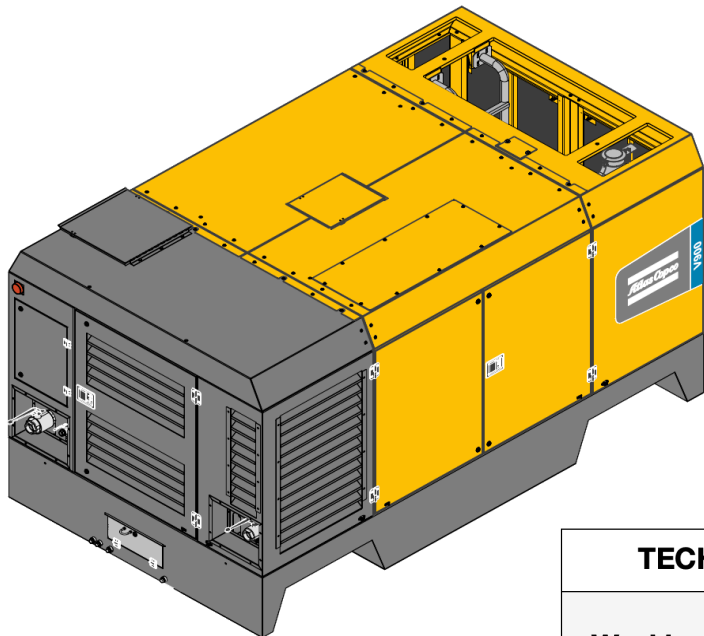


PAT has worked in partnership with Atlas Copco Thailand for 30 years and can competitively offer two selected models to work effectively with PAT water well drilling rigs drilling hard rock boreholes from 115 - 200 mm diameter

The **V600** has the capacity to drill 115-178 mm (4 ½"- 7") diameter hard rock boreholes Weighing 2,300 Kg with a 152 kW engine is road trailer mounted and at 2.8 m long can be mounted crosswise behind cab on a drill support truck - carrying site supplies and towing a PAT 301T or 421 model trailer rig

It can mobilise to off-road rural communities - is low capital cost solution to Users looking to implement rural community water supplies

TECHNICAL SPECIFICATIONS		V600	
Working Pressure	BAR	5	14
	PSI	75	200
Air Flow	m ³ /min	14	17
	cfm	600	500



The **V900** has the capacity to drill holes up to 178/200 mm (7"-8") diameter in hard rock with 25 Bar high pressure suited to users looking for high penetration rates and ability to drill deep under groundwater supplied as a boxed unit for truck mounting weighing 4,500 Kg 264 kW engine

TECHNICAL SPECIFICATIONS		V900	
Working Pressure	BAR	20	25
	PSI	300	350
Air Flow	m ³ /min	25.5	23
	cfm	900	800

Matching Air Compressor to Casing & Drill Bit Diameters

V600								V900							
Casing & Screen permanent set		Temporary Set Surface Casing		Pass Thru DTH Bit (4/5" DTH)		*up-hole velocity @600CFM/17m ³ /min		Casing & Screen permanent set		Temporary Set Surface Casing		Pass Thru DTH Bit (6" DTH)		*up-hole velocity @900CFM/25m ³ /min	
Metric uPVC	Inch	mm	Inch	mm	Inch	ft/min	M/min	Metric uPVC	Inch	mm	Inch	mm	Inch	ft/min	M/min
		140 x127	5"	115 (4" DTH only)	4 1/2"	13000	4000	114x102 & 125x115	4" & 4.1/2"	165 x151	6"	150	6"	7000	2250
114x102 & 125x115	4" & 4.1/2"	165 x151	6"	150 (4" & 5" DTH)	6"	46000	1400	125x115	4.1/2"	200 x180	7"	178	7"	4500	1366
125x115	4" & 4.1/2"	200 x180	7"	165 (5" DTH Only)	6 1/2"	36000	1100	140x127 & 165x150	5" & 6"	225 x 202	8"	200	8"	3200	1010
								200x180 & 225x202	7" & 8"	280x 252	10"	245	10"	1900	625

* **Min Up-hole velocity 900 / 1200m / min (3000ft / 4000ft / min)**

All PAT supplied compressors come with a full international Atlas Copco warranty extended to end-users, and PAT stocks the necessary service consumables

TRUCK MOUNTING (V900)

Compressor mounting requires either a purpose built chassis frame alternately it can be loaded onto a truck bed and secured with suitable tie down straps

PAT Offer a range of preferred truck options according to field requirements



TRUCK MODEL	DRIVE	GVW	ENGINE POWER	TYRES
HINO FC9JE1A	4x2	9,900	156 kW	8.25 - R16
HINO FGJF1D	4x2	15,000	176 kW	11.00 - R20
IVECO ML150 *	4x4	15,000	117 kW	1400 - R20
MERCEDES-BENZ ZETROS 2236 AK *	4x4	14,000	265 kW	325/95 - R24
*	Note: Hino Trucks only LHD Steering for IVECO & BENZ Zetros LHD or RHD Steering Available			

All PAT compressors are supplied with 2 wire braided high pressure hoses 20m long with a safe rated pressure rating of 80 bar with swaged JIC cone sealing high pressure couplings - with storage rack built onto truck mounting.



Rear cab spare tyre mounting rack with demounting ramps.



Notes:

Compressor mounting completed in the PAT factory Bangkok requiring LHD truck chassis to be temporarily imported duty free (A PAT managed process). RHD Hino trucks available direct from Thailand.

Trucks can be purchased direct by PAT on behalf of client or 'free issued' and shipped to Bangkok Thailand

Technical data basic unit

Model		V 600		V900	
Normal effective working pressure	bar	5-11	14	20	25
Absolute inlet pressure	bar		1		1
Relative air humidity	%		0		0
Air inlet temperature	°C		20		20
Minimum effective receiver pressure	bar		4	15	15
Maximum effective receiver pressure (Unloaded)	bar		15	20	25
Actual free air delivery	cfm	600	500	900	800
Fuel consumption					
at 100% FAD (full load)	l/h	24.66	30.24	59.33	56.33
at 75% FAD	l/h	23.0	25.0	49.42	51.52
at 50% FAD	l/h	16.46	20.45	42.84	44.14
at 25% FAD	l/h	17.0	19.0	27.77	31.26
at unload	l/h	-	-	21.63	24.84
Specific fuel consumption at 100% FAD	g/m ³	32.38		34.05	36.42
Maximum typical oil content of compressed air	ppm	5			<5
Compressed air temperature at outlet valve without aftercooler	°C	100			100
Max. ambient temperature at sea level	°C	50			50
Max. ambient temperature at sea level with aftercooler	°C	-			45
Min. starting temperature with cold weather equipment	°C	-25			-25
Min. starting temperature without cold weather equipment	°C	-10			-10
Number of compression stages		1			2
Engine		Cummins		Cummins Stage III	
Type		QSB5.9-C210		QSL8.9-C360-30	
Coolant		Liquid (glycol 50%)		Coolant	
Number of cylinders		6		6	
Bore	mm	102		114	
Stroke	mm	120		145	
Swept volume	l	6		8.9	
Engine power at normal shaft speed @ SAE J 1995	kW	152		264	
Full Load	rpm	2000		1700	
Unload	rpm	1200		1200	
Capacity of oil sump	l	14.2		21	
Capacity of cooling system	l	31		58	
Capacity of compressor oil system	l	47		89	
Net capacity of air receiver	l	67		143	
Air volume at inlet grating (approx.)	m ³ /s	7.5		13.1	
Capacity of standard fuel tanks	l	185		420	
Dimensions (L x W x H) V600 : Undercarriage, V900 : Box	cm	448 x 200 x 228		383 x 210 x 225	
Dry weight	kg	2125		3850	
Wet weight : V600 : Undercarriage, V900 : Box	kg	2500		4355	

