**ECO-KALAN-C & 3 VARIATIONS TO PROVIDE SEPARATE PRIMARY AND SECONDARY AIRFLOWS**



**FRONT: COMBUSTION CHAMBERS BACK: KALANS**

 **ECO-KALAN-C (3AF, -3”Arc, Holes CC) ECO-KALAN-C (3AF, -3”Arc, -3”Chimney, Holes K)**

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 **ECO-KALAN-C (1AF, current production) ECO-KALAN-C (2AF, -3Arc)**

**LEFT TO RIGHT:**

[**https://plus.google.com/photos/113101643783889350444/albums/5917422628027620641?partnerid=gplp0**](https://plus.google.com/photos/113101643783889350444/albums/5917422628027620641?partnerid=gplp0)

**1. ECO-KALAN-C (1AF)—CURRENT PRODUCTION**

**WHEN IN USE, SPACE BETWEEN KALAN & CHAMBER IS INSULATED WITH ASH. ONE OPENING FOR COMBINED PRIMARY AND SECONDARY AIR. HEIGHT OF POT SUPPORT IS 11/16 INCH.**

**WBT1 PHOTOS FOR ECO-KALAN-C (TIME TO BOIL WATER TEST USING 18.75L WATER IN 33L POT)**

[**https://plus.google.com/photos/113101643783889350444/albums/5917419040022346465**](https://plus.google.com/photos/113101643783889350444/albums/5917419040022346465)

**RESULTS:**

**TIME TO BOIL: 31 minutes;**

**WEIGHT OF FIREWOOD USED: 1.70kg (3.00 kg - 0.15kg unburned wood - 1.00kg unused wood - 0.15kg charcoal)**

**2. ECO-KALAN-C (3AF, -3”Arc, Holes CC)**

**3 AIRFLOWS –THROUGH THE FRONT OPENING OF THE COMBUSTION CHAMBER; SPACE BETWEEN THE KALAN &**

**CHAMBER; AND THE 3 HOLES (11/16 INCH IN DIAMETER) AT THE BACK AND L & R SIDES OF THE COMBUSTION CHAMBER. FRONT ARC IS REDUCED BY 3 INCHES AT WET CLAY STAGE. HEIGHT OF POT SUPPORTS IN THE KALAN IS REDUCED TO 9/16 INCH FROM 11/16 INCH IN THE ECO-KALAN-C CURRENTLY PRODUCED.**

**HCC BURN PHOTOS FOR ECO-KALAN-C (3AF, -3”Arc, Holes CC)**

[**https://plus.google.com/photos/113101643783889350444/albums/5917353577656369889**](https://plus.google.com/photos/113101643783889350444/albums/5917353577656369889)

**WBT2 PHOTOS FOR ECO-KALAN-C WITH 3 HOLES IN COMBUSTION CHAMBER (3AF, -3”Arc, Holes CC)**

[**https://plus.google.com/photos/113101643783889350444/albums/5917506299230383505?partnerid=gplp0**](https://plus.google.com/photos/113101643783889350444/albums/5917506299230383505?partnerid=gplp0)

**RESULTS:**

**TIME TO BOIL: 46 minutes**

**WEIGHT OF FIREWOOD USED: 1.80kg (3.00 – 0.10kg unburned wood – 1.0kg unused wood – 0.10kg charcoal)**

**3. ECO-KALAN-C (2AF, -3”Arc) NO HOLES**

**NO HOLES IN KALAN OR CHAMBER. 2 AIRFLOWS – COMBINED PRIMARY & SECONDARY AIR AT FRONT OPENING; AND AIR BETWEEN KALAN & CHAMBER FOR COOLING. FRONT ARC REDUCED BY 3 INCHES AT WET CLAY STAGE. HEIGHT OF POT SUPPORTS IS 9/16 INCH.**

**#3 BURN PHOTOS FOR ECO-KALAN-C (2AF, -3” Arc) NO HOLES**

[**https://plus.google.com/photos/113101643783889350444/albums/5916668974891855425?partnerid=gplp0**](https://plus.google.com/photos/113101643783889350444/albums/5916668974891855425?partnerid=gplp0)

**WBT3 PHOTOS FOR ECO-KALAN-C (2AF, -3” Arc) NO HOLES**

<https://plus.google.com/photos/113101643783889350444/albums/5917449980290005009>

**RESULTS:**

**TIME TO BOIL: 41 minutes**

**WEIGHT OF FIREWOOD USED: 1.75kg (3.00 – 0.10kg unburned wood – 1.00kg unused wood – 0.15kg charcoal)**

**4. ECO-KALAN-C (3AF, -3” Arc, -3” Chimney, Holes K)**

**HAS 3 AIRFLOWS – THROUGH THE FRONT OPENING OF THE CHAMBER; THE SPACE BETWEEN THE KALAN & CHAMBER; AND THE 3 HOLES IN THE KALAN WHICH ARE DIRECTLY ABOVE THE TOP OPENING OF THE CHAMBER. THE 3 HOLES IN THE KALAN ARE 11/16 INCH IN DIAMETER. BOTH FRONT ARC AND THE VERTICAL PART (CHIMNEY) OF COMBUSTION CHAMBER ARE REDUCED BY 3 INCHES AT WET CLAY STAGE.**

**3-3HK BURN PHOTOS FOR ECO-KALAN-C (3AF, -3” Arc, -3” Chimney, Holes K)**

[**https://plus.google.com/photos/113101643783889350444/albums/5917343754406158945**](https://plus.google.com/photos/113101643783889350444/albums/5917343754406158945)

**WBT4 PHOTOS FOR ECO-KALAN-C (3AF, -3” Arc, -3” Chimney, Holes K)**

[**https://plus.google.com/photos/113101643783889350444/albums/5917500318029135809**](https://plus.google.com/photos/113101643783889350444/albums/5917500318029135809)

**RESULTS:**

**TIME TO BOIL: 57 minutes**

**WEIGHT OF FIREWOOD USED: 2.20kg (3.00 – 0.20kg unburned wood – 0.40kg unused wood – 0.20kg charcoal)**